

Ideas

- A turbulent resistant aircraft based on phase changing micro winglets
- A device for home based measurement of teeth movement using stretchable electronics
- A website for people to barter/trade things
- A platform to form companies on the fly with anyone around the world and take ideas to market
- An education platform where you can jump from one micro video to another to learn about topics - dynamic and personalized learning
- App to connect 2 random and anonymous people around the world to share their lives
- A virtual personal assistant that can organize my life
- Electroencephalography (EEG) to control electrical devices with devices available to monitor the brain waves, we could utilise it to give an output to control certain things e.g. EEG+VR headset for gamers. Or Patients with robotic arms to control their robot arm movements.
- A web that helps realize people's ideas: Everyone had ideas but not everyone has the skill to develop them into app or web. Be it utility or mini game or productive apps. We could have a website that help realize these ideas where people will drop their ideas and we choose the best to work on. Of course, not everyone would drop it for free, certain terms (% revenue) given to them if generated etc.
- Recycling plastic bottles: Plastic bottles are generated daily. These bottles are mostly thermoplastics. Can be reformed upon heating. What if these bottles are cleaned and reshaped to products not related to food e.g. toy play grounds, stationaries. People starting using it to build houses in rural areas.. They make roads with plastics in India.
- Large wireless charging platform that can be used as a table and you just need to put the devices on the table for it to charge. Also compatible with different devices like iPhones, Samsung, laptops, ipad. Also along with that, a small plug that can be hooked onto devices that do not have air wireless charging ability to be able to charge that way
- Easy to set up Solar Panel or Wind Turbines based on the environment (ie sunny/windy) that can be assembled on the spot easily and can be used immediately
- An app for people who are new to a country or city to make friends easily and connect
- Using elastic ropes of different elasticity to replicate weight lifting. This would be portable and easy to use for people who don't have gym access or are travelling
- Air cleaner: Use electrolysis to oxidize/reduce hazardous gas such as formaldehyde indoors.
- Foodcourt ordering app: Allow foodcourt stalls to open a virtual stall online. People can use the app to order from the foodcourt which is on their way home. So when people go home from work, they can just drop by and collect the food.
- Scooter / E-bike sharing network: Allow people to rent a scooter or E-bike from HDB to MRT / bus stops, or vice versa.
- A cross linker to replace formaldehyde.
- A healthy cigarette
- Buy/sell online market place for small communities
- Value added, in situ waste management
- Exploding airplane with parachutes instead of life jackets
- Solving Nepal's glacial lake problem with an energy management solution

- Crossfit for benefit - instead of tossing a giant wheel about or slinging ropes, how about loading rice onto a boat
- Quantum dot array with microfluidics and AI for customizable catalysis
- Using insect gut microbiota as a high throughput characterization tool
- Electrolytic anode that bleaches undesired skin pigmentation/ Tattoo eraser
- A comb with vibrating teeth to manage frizzy hair
- An electrolytic oxygen generating unit for closed up spaces like office space/ domestic spaces/ vehicle space/ restaurant space/ lift etc to maintain a constant healthy oxygen level. It works on water.
- Healthy food nearby gamified - An app that shows you all healthy food options nearby (filtered by different categories : for vegans, protein buffs, balanced meals, just salads). Every user would have an avatar and as he/she explored food places and logged what they ate, the avatar would change accordingly (get fatter, fitter)
- A device that detects and adjusts stressed out/anxious brain wave frequencies. Read a paper that showed participants who actively thought about the act of exercising actually loss weight and gained muscle overtime. Some severely obese people would need something like this , especially when exercise starts to become almost impossible for them. Virtual reality is getting to be extremely realistic now. This could really help them shed at least the first few pounds to start them being mobile again.
- A single supplement that creates a perfect alkaline environment for optimum healing and longevity
- A protocol to reverse aging skin
- Non-plastic / planet friendly water bottles
- The elimination of zoos, CAFO's and a aquariums - return animals to natural environments and/or sanctuaries.
- For the cooler environments, development of transparent, adhesive, film-type material to insulate single-pane windows in older properties to retain heat within the building.
- High precision, domestic, coffee machine. Self-adjusting steam arm within a pressurized vessel and precision milk dispensing nozzle to create milky coffee drinks of varying consistency. Similar mechanism to a 3D printer can be employed to control the movement of the nozzle to create patterned drinks.
- Development of a centralised university application system for developing countries such as Myanmar and Cambodia. Similar to UCAS in the UK.
- Epidermal electronics (electronic tattoos) that can be used to interface with the brain and pick up neural signals
- A site of adaptable stock videos, excellent stock videos that can be adapted for custom usage.
- A site for generating marketing ideas. Open innovation sites today are largely based on solving problems.
- A get out of jail free card in real life for small offences
- A platform that vets people who are facing temporary financial trouble, but protects their identity, and enables members of the community to learn their stories and donate to them directly in the form of a gift or loan without interest

- A wearable technology that works like a tiny, built-in A/C or heater inside your clothes to combat extreme weather
- Normal glasses with Bone Conduction technology
- Spoon that is able to detect the % of salt and sugar intake per serving and total salt & sugar level intake
- Smart shirt. Shirt that could maintain small fluctuation in temperature, measure HBP, blood pressure
- A device to manipulate one's metabolism
- A device to measure health daily by taking a blood sample like diabetes
- Prevention of GMOs - maybe a way to tell if the vegetable, meat, fish or poultry and looking for alternatives
- Healthy potato chips
- Machine that helps to lose weight without workout
- Method to reduce car emission
- A website that only curates good, positive news. Goodnews.com
- A new religion. I can only think of the symbol now, a circle -:)
- Probiotics designed based on an individual's gene profile
- A jar to concentrate the wine/alcohol
- Conventional synthesis of alcohol by fermenting sugar or fruit juice gives a maximum final concentration of alcohol below 10%. Concentrating the alcohol above this level needs technologies or chemicals, not really handy for common people.
- A jar with its walls lined by linear closely packed electrodes (wire electrodes) electrolyze specifically the water content in the wine or aqueous alcohol solution into oxygen and hydrogen gas and concentrate the alcohol content as far as the temperature of the system is kept below a certain level to avoid evaporative loss of ethanol. The same principle may be used in ethanol based biofuel synthesis or a regular lab attempting to remove water from nonionic organic solvents.
- An electrical device to remove bad odor
- An electrical/electrolytic device can be designed to oxidize the room air with an offensive odor using oxygen generated or naturally present in the air to render the odor producing volatile molecules into odorless oxidized end products. Application is intended for rooms inhabiting bedridden patients, small kids, and odor emanating chemical processes (A salon or kitchen) not to mention the public or domestic toilet space.
- All in one immunization/ injection
- A single injection performed finishes the immunization program intended for a newborn. At present a newborn baby undergoing national immunization program takes multiple injections stretched on several months or years. Bringing a minor for immunization by their parents repeatedly on defined days for years is met with a very low compliance and high drop off rates in developing nations. The immunization factors (the chemical factors in the injection vial) often involves protein units of or dead pathogens. These can be incorporated in a needle shaped biocompatible gel/biomaterial which once inserted into the body by a conventional injection procedure, is reabsorbed at certain rate, layer by layer, to release the different immunization factors one by one over a stretched period, say months to years.

- An app that downloads your Akashic Records
- A non toxic cream that penetrates below the dermis for hyper hydration
- Healthy chocolate croissants
- Diversify SIC throughout SE Asia through a network of incubators/accelerators to entice local start-ups in countries like Myanmar, Cambodia and Nepal. Offer expertise, office space and connections in return for a percentage stake.
- An app to facilitate brainstorming within companies. The app should provide the latest updates in the field in which the company specializes to aid in idea generation.
- Make an equivalent of Jersey Shore (or some other reality TV show) for Singapore. (A Glasgow version was recently made by an independent production company. It's terrible, but is very popular)
- A platform that allows investors/people to lend businesses with short term liabilities (payrolls) stocks, bonds and other assets as collateral to obtain bank financing. Imagine an alternative to seeking investments and or turning to banks for loans.
- A highly relevant/selected platform that allows people around the world to collaborate on business models and other creatives ideas for businesses leveraging on the different cultures, trends, technologies and knowledge.
- Design a line of high quality, smart and good looking furniture that can fold up to a briefcase size.
- A platform that connects and networks fitness classes, gyms, healthy food memberships
- Car-sharing platform that allows people to offer their car for rent when not in use
- Online shopping with virtual reality stores
- An algorithm for creating music based on evolutionary algorithms and neural networks. Essentially the algorithm will evolve new music based on past music. You could identify a list of songs that you like and feed it into a neural network which will learn your preferences. The evolutionary algorithm will then create entirely new music and compare against what you like to finally arrive at a song that you would like. Neural networks provide a complex structure to represent the current structure.
- An app for children to collaboratively create stories. Each child joins a group where they write stories. Each child is only allowed to write 3 sentences and then the next child has to take over. At the end, the kids can rate which stories they like. The idea is to promote reading and writing and get the kids to be imaginative.
- A device that senses when a driver is falling asleep based on dermal or brain activity and zaps them with electricity to wake them up.
- Compact, transportable radiator which can fold away. The unit can be unfolded and plugged into an electric socket to provide a powerful heat source.
- Silent Killers: Many people around the age of late 40s (mostly men) die of silent killers - coronary artery disease, diabetes, High Blood Pressure and we have preventive methods like Cardiatics or foundations making people aware. But many of these people already have caused the harm done on them, and they are ticking time bomb. Is there a device that can try to keep an eye for these symptoms (pulse rate for arrhythmia, blood test to check diabetes, ect) These are all devices sold separately and only given upon catching the problem. Nothing really to catch these problem, and annual medical sometimes does not catch all of them. With this device, they can prevent strokes beforehand and prevent a state of half or full paralysis.

- Cancer Catcher: Having a compiled history of families with flawed genetics (cancer or weak heart etc) - This will help the doctors to keep a close eye and check for possible symptoms and in their annual check up to have added features to check for these.
- Lightning drone: a drone aircraft designed to fly in thunderstorms (perhaps to monitor weather conditions, for reconnaissance, or to provide communications). the drone should use the same phenomenon that gives rise to lightning (differences in the transport of charged particles) to charge it's onboard battery for operation. if successful and miniatureizable, could perhaps be envisioned to decrease the likelihood of lightning streaks in certain areas.
- Handheld scientific instrumentation: smartphone technology is quite powerful and arguably not leveraged to its fullest extent. Using the existing components or perhaps with slight modifications (maybe augmenting the camera lens, or adding a USB connectable device) and developing the proper software interface, useful scientific methods such as spectrophotometry, other spectroscopies (e.g. fluorescent), temperature measurement, pressure measurement, electrical measurements, microscopy, etc might be possible
- "Amazon maps" for shopping: a web-based platform that allows users to update and search for items in a store by location. this would be most useful for large stores where GPS signal would vary with general location, but other technology (such as image stitching) could be used to construct maps of the store with subsequent pictures labeled with data by users to allow for the easy finding of products (and not having to bother going to a certain shop that you know doesn't have what you are looking for). This would be enormously useful in a place like Mustafa center where the same category of items are offered in various distant locations of the shopping center
- Domestic and public drain filters that do not clog. Drain filters getting clogged by fibers, particles and biofilms is an unavoidable process. Cleaning these filters is one of the dirtiest maintenance jobs we face. Adding an electrolytic polarity in the conductive filters creates extreme pH zones helping disintegration of the substances causing the blockade.
- Stink-less clothing. Cloths we wear during workouts and physical exertion develop bad odor usually described as body odor. But it is an odor produced by the action of the bacteria and fungus over the secretions mainly the sweat. Some people are less odorous than the rest, because of the difference in the composition of their sweat. Two types of micro metal particles having different levels of electronegativity can be blended into the threads of the cloths. This sets up multiple micro-electrolytic cells when the cloths are soaked in the sweat (electrolyte). This electrolytic activity prevents the growth of the microbes on the cloths and will last until one of the metal particles is completely oxidized and leached out.
- Nicotine patches for raising the alertness in the night time drivers.
- Extendible/retractable domestic printer. Can be extended to print A3/A2 sheets if required, but can compress to A5 to save space.
- Transportable door lock. Small unit which can be secured to any door and frame to lock it. Could be used to lock toilet stall doors which may be faulty, provide extra security in Airbnb rooms, etc.
- Compact, transportable radiator which can fold away. The unit can be unfolded and plugged into an electric socket to provide a powerful heat source.
- Utilizing the unlocking screen of phones to learn people's preferences. People can sign up for the service and provide information on themselves. Now, if a company wants to carry out market research, they can utilize this platform to ask people questions. For example, with

Mirakel, "What does controlled straightening mean to you?" We could provide this question to people with curly hair and they can answer it. We can also learn about people that way. "Do you have curly hair?" could be a question. People who are on the platform could be paid every month to do this.

- A tailoring machine that makes clothes for people based on what they design on an interface. 3D printing for clothes.
- A gesture based interface for communicating with a device such as apple watch. Use your hands to do things rather than touch on a screen.
- Spray that straightens out wrinkles on clothes so one need not press/iron anymore
- Device that locates and speedily delivers travel luggage so no one needs to wait to collect their bags
- Plane that flies 20 times the speed of current commercial jets without side effects to passengers
- Having an extension that remembers all the tabs that were closed before shut down without having to go to history or individually saving each URL in notes
- A device that can be inserted in our ear so that we can have other languages translated immediately. This will help communication gaps
- Have lockers all around singapore so that I can stash my bulky item if I'm going out with my friends or for an event. With a time of 24hr after which there will be a hefty fine.
- Drinking food, like Soylent in the US
- Cigarette that direct stimulate smokers' brain to generate neural signals, without any real combustion or smell
- Kaya butter toast that can be kept for long period while maintaining its taste and crispy surface
- Use an antigen/antibody approach to develop chemistries to coat hair (thickening)
- A school with presence in 5 different cities where the kids progressively spend 2 years in each city (50% locals, 50% rotates) - developing next generation global citizens.
- A box where you put in your finger, the image is taken and processed where the nails are polished/manicures are done automatically (choose different colors, shades etc) - aimed to disrupt the pedicure/manicure industry
- Gig shopping: like the uber of shopping. can request specific items from specific stores and the "gig shoppers" can accept or decline a potential gig depending on their current location and where the customer wants it dropped off to. this can put a few extra dollars in anyone's pocket while they are out shopping for themselves and would be particularly convenient if the delivery location is in their nearby neighborhood anyway. it will also streamline "shopping days" for many people by allowing someone not to have to run to multiple locations and instead shop themselves and other people why those people do the same for them. most of all, it can provide income to people who need it and don't mind shopping from people with disposable income who simply do not want to do this task
- wifi LPS (local positioning system): for use with in situations like "amazon maps". the strength of broadcast SSIDs from various wifi hotspots can be used to triangulate positions on a map (this is without need to connect to the network, similar to wifi signal analyzer apps). as specific locations are logged on the map by users, the quality of the positioning increases. this is particularly true with the increasing number of hotspots. the wifi signal can even be detected by the antenna for overlapping signals (i.e. when you cannot connect to the network due to

interference). this would allow people to navigate within places like shopping malls, apartment complexes, office buildings etc including in the height dimension

- dry cleaning with ionic liquids: one of the big advantages of ionic liquids is the absence of vapor pressure, which allows it to be recycled with a very high yield rate. the concept here is to develop a self-contained washing system for home use that doesn't use water and recycles its own working fluid. the amount of water used for cleaning clothes is enormous, and while water is fairly cheap it is widely wasted and this is damaging for the environment in terms of the energy costs of water treatment and transport
- A microwave closet for drying wet clothes and shoes: Microwaves selectively heats up the water molecules. Hence those plastic components in the clothes (like buttons and polymer threads) are not exposed to high heat. A wet cloth kept hanged in the microwave closet may turn out to be almost wrinkle free.
- A smartphone application to identify the counterfeit money. Often the travelers are cheated with fake money. We might know how our native currency feels or looks like but are completely naïve with a foreign currency. Present smart phones can exploit the high resolution camera to analyze the print as well as the touch screen to feel the embossments on the banknote once it is spread on the screen by closing the cover lid over. More sensors can be added to make it smarter to get a professional read out.
- “The Insight” -A smartphone application to study the state of the mind. “The Insight” a smartphone application prompts a person to register professionally what they think, what they feel, level of social engagement, what they are preoccupied with and how they reacted to emotional situations or memories in everyday life. The data acquired will be stored encrypted and the subject holds the key. The subject may speak into the phone (the phone records in writing) or type in manually when speaking is not feasible. The software analyzes the data based on the existing knowledge, prompt questions to gather more information on the suspected deviations or consult professionals online. The application brings back the prognosis and corrective measures back to the subject. A patient is able to share their personal “insight files” with the healthcare professionals. This greatly saves the time of the professionals and gives a better and complete picture of the patient. A busy psychiatrist has no time for long interviews to study the minds unless his patients have really deep pockets.
- A way to access a larger percentage of your brain
- A better way of making important life decisions. Imagine a huge database full of how certain decisions impact other peoples lives and being able to tap onto patterns so that we can help ppl make decisions.
- A safe, permanent, damage-free way to curl hair that is naturally straight
- Application to generate an optimum workflow based on tasks and nature of tasks. This could be used to generate study timetables, or to maximise productivity in the workplace, by diversifying the nature of tasks to minimise monotony, providing realistic timeframes, etc.
- Application which can read the input fields on job application sites and import the relevant information from a CV or LinkedIn account. This allows the user to speed up the application process.
- Utilize NFC on mobile phones for further applications than transport smartcards. A phone could become a student card and be used to enter university buildings, register presence in exams, etc. Businesses could also use phones as a means of employees clocking-in and clocking-out.

- Same day dentures. Similar to the Own Day optician retail store concept where customers get their spectacles within 2 hours instead of one week. They get their eyesight tested, go shopping and two hours later, their glasses are ready.
- All-purpose orthodontic appliance. Combine a suite a hawley retention and arch expansion devices into a single device that allows for adjustment
- A much cheaper alternative to PVS impression material that is able to maintain shape and allow for highly accurate cast models for ortho, dentures as well as crowns & bridge work
- Tool/algorithm to use uncertainty and ambiguity as humans advantage. How we deal with what we don't understand is what matter the most.
- Virtual reality to spend time with people far apart. Imagine being in two different countries and experiencing lounging on the couch with family/friends/partners as if you were in the same room.
- A data-centric architecture, transparent and easy to understand tool that helps individuals asses the act of valuing. As Nietzsche proclaims, a table of values hangs above every great person. Yet, not everybody had the luxury of growing up with support/examples and exposure. To over simplify - this wants to help build a better society, better people.
- Develop a 'curious' app that randomly asks questions to people and captures the answers. Create a knowledge base of answers to questions.
- An app that allows the creation of a movie based on people filming small bits of a script and stitching it together.
- Portable mid range IR spectrometer
- Ankle or socks technology that prevents sprains, both for sports and regular walks/jogs.
- A sim card that can be used globally with unlimited wifi that comes with a standard monthly fee.
- Clothes that adjust in thickness according to the weather
- A camera in the oven which is connected to devices to see of the food is ready or overcooked without having to go there and take it out from the oven
- A cutting tool to expedite cutting of hard vegetables like pumpkin and butternut squash
- A way for making molds cheaper or an alternative for prototyping
- Use an antigen/antibody approach to develop chemistries to coat hair (thickening)
- A school with presence in 5 different cities where the kids progressively spend 2 years in each city (50% locals, 50% rotates) - developing next generation global citizens.
- A box where you put in your finger, the image is taken and processed where the nails are polished/manicures are done automatically (choose different colors, shades etc) - aimed to disrupt the pedicure/manicure industry
- Internet of Things stove: let's you check from your phone whether you forgot to turn off the stove; allows you to preheat the oven on the fly; allows for programmable and easily changeable heat profiles
- bullets with fingerprints: uses trace metal profiles and rare elements to generate an effective serial number than can be determined from elemental analysis of a bullet fragment. will tighten up the ability to traced gun fire in criminal, civil, and war interactions and will greatly help forensic scientists in their abilities to determine "who done it" without question. also, would allow the tracing of a bullet to a particular batch or maybe even sale, rather than to being fired from a particular gun as current forensic technology is limited to

- green cigarette butts: a more eco-friendly material that is more biodegradable. currently cellulose-acetate is being used (which is biodegradable, but takes some time). perhaps infuse the butts with seeds for herbs or trees, so that when some asshole throws there butt on the ground instead of in the trash, at least is serves some purpose
- Semi-permanent hair coloring without bleaching: Repeated bleaching end up in hair damage. For coloring hair, we might construct a colored Keratin layer covalently crosslinked over the hair surface with or without a white primer coat to mask the existing color depending on the original hair color. For alteration of the color, we just strip and build a new colored layer.
- Electric device for generating bleach: Bleach is one of the cheapest, efficient and fastest cleaning solution for the stains in the refreshment rooms. An electrical/ electrolytic device can repeatedly generate bleach from simple salt in the restrooms itself.
- A device for impression imaging of the hair cuticle damage at salons. Dark hair does not transmit light and hence we find difficult to image cuticle by the usual microscopes. But in house Huang Ke has cracked a brilliant method to visualize the cuticle. We can produce an easy to use disposable impression slides for the hair as well as a small digital microscope for easy imaging of the cuticles for the salon customers. This improves the professional outlook of the salons.
- Automatic wall painter. Utilises a similar concept to automatic vacuums. Paint is applied to the wall in straight lines, with outer plastic rims to ensure paint is applied flush with fixtures such as light switches and skirting boards. The unit changes direction based on impacts, sensors, etc.
- Revolutionize the postal service. Enter the address of your intended recipient online (or in a post office) to generate a barcode for which you pay, print and stick onto the letter/parcel. The single barcode contains the address, proof of payment, delivery method, acts as a tracker, and can be read and sorted automatically without human intervention.
- Algorithm for airports/airlines to minimize flight delays by optimizing arrivals and departures with boarding gates and parking ramps. Takes into account historical delays, taxiing patterns of aircraft, etc to generate airline timetables and parking schedules.
- A new way to advertise
- Design micro parts for replacing/repairing appliances applicable and interchangeable with any appliance in a household. Imagine being able to fix your stove utilizing a piece from your vacuum cleaner.
- Utilize machine learning to come up with best offers, plans, airplane tickets and so forth to simply decision making and save time while organizing simple day to day things to planning trips and more.
- Hardware up-gradable modular smartphone components that reduces the risk of obsolescence and allows consumers to pick and choose the features that are tailored to their needs.
- An energy renewable car or vehicle platform that runs on water by it down into its constituent hydrogen and oxygen elements
- A temporary plastic surgery kit that is non-invasive and allows you to look like a movie star
- An app that captures the preferred tastes of people and has a database of menus so that recommendations of locations can be made based on group preferences.
- Design of a row of 3 chairs that turn into beds without occupying more space (except vertically). Turn all economy class flight seats to beds.
- A smarter smart phone - Smart phones today largely have to be told what to do. For example, you have to set the alarm or you have to switch it to silent mode. A smarter smart phone

understands the context in which the owner is in. The phone knows the owner and understands what the owner needs and just knows what to do.

- AR for Google maps
- AR for learning new skills
- Technology or app that detects and alerts you just before you fall sick, and gives you instructions on how to avoid it.
- A hydration pill that works in minutes
- A better service connected by major Telcoms in different countries so we don't have to pay a crazy data roaming charges
- Rapeproof panties: a technology solution for collecting evidence. in no way would it actually be "rapeproof" per se, rather it could gather audio or video evidence in the event that someone is incapacitated due to intoxication (or goodness forbid, violence) and taken advantage of. one use for it would be to ensure that when people want to go out for a good time, at least they can be sure that there is someone to testify if something goes wrong. another use of it will be as a deterrent to keep creeps that know people might be using these devices from trying to drug and take advantage of people. the concept would be a skin contact off switch, to allow for a small battery and long lifetime. if the piece of clothing is removed, the monitoring devices will be activated. if you meant to take off that article no, problem. but if you notice something isn't right in the morning, you can download the data and figure out what happened
- A cardiac stent that repels any clotting. A patient having a significant block in the coronary blood vessels is advised to undergo coronary bypass- a major surgery where a blood vessel from the periphery is harvested and grafted on the heart bypassing the block. But a major surgery needs a good degree of fitness to survive the stress of the surgery. Hence most of the patients especially the aged ones and the already compromised ones by the shock of myocardial infarction undergoes a less invasive procedure called 'stenting'. A spring/mesh like coiled material is inserted into the blocked blood vessel across the blockade so that the pathological bump in the intima of the blood vessel is pushed open by the residing incompressible structure to keep the blood flowing. But the usual cause of failure of the stent is development of a blood clot over it with time. A conductive spring like coiled stent can be induced to have an electric potential on the device through extracorporeal (outside the body) magnetic waves from a source in a necklace or a device in a crisis management to repel off/ digest the clot to keep the stent patent for long life.
- A smart internal fixation for bone fractures. Fractured bones are fixed across by metallic structures till the fracture heals. But the bone stays/ grows strong only if the mechanical force is experienced through. A steel structure across the fracture gives immobility for the needed healing process but shield the mechanical stress out of the bone. Hence the bone grows weaker and becomes liable to fracture again. This effect is called stress shielding effect. The doctors re-open the wound and remove the internal fixation at certain stage of healing risking another fracture in the bone supported by the fixture. A self-detaching internal fixture is conceived where a magnetic wave from outside the body induce potential on the metallic fixture helping them to detach from the bone at their attachments gradually- shifting the mechanical stress back to the bone in a graded manner matching with the pace of the fracture healing.
- A dental stain remover: Electrolytic device that creates a bleaching acidic zone to remove the dental stains

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- Algorithm for airports/airlines to minimize flight delays by optimizing arrivals and departures with boarding gates and parking ramps. Takes into account historical delays, taxiing patterns of aircraft, etc to generate airline timetables and parking schedules.
- Beautiful organization system for on-sink toiletries. Today, the top of the sink has soap, brushes, toothpaste, moisturizer, shaving razor, perfume, deodorizer etc. - they are made of plastic, have wacky colors, don't have the ability to be kept straight. Imagine a good looking and well designed box that can hold it all and removes clutter.
- A system that analyzes an infant/toddler's personality and tells what is the best way to motivate and engage them.
- Shoes that grow as a child grows
- SIC farm: I am thinking of creating a small vegetable farm within our office. We will grow something. We will create the environment (energy, water, etc), the technologies to monitor the growth. We can also change the environment to suit different kinds of vegetables.
- SIC kids academy (below ages of 12): Create a SIC portfolio of 5 companies where the ideas are generated by kids, developed by kids and marketed by kids.
- Ambient intelligent office living lab: Turn the SIC office into an ambient intelligent office. Smart lighting, smart air conditioning, smart entry etc.
- A liquid solution that restore the colour of old clothes which have already faded over time.
- Smart ruler : a ruler whose units can be changed. Can either display cm, ft, inch, etc
- A container which does not have water droplets forming internally (when hot food is place inside and sealed) where the droplets moisten the food when cooled (especially deep fried food - no longer crispy)
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- A container which does not have water droplets forming internally (when hot food is place inside and sealed) where the droplets moisten the food when cooled (especially deep fried food - no longer crispy)
- Zero pollution air system for luxury homes and high star hotels: Heavy pollution threatening the survival of the people is not uncommon in the present world. Examples are the unexpected heavy haze out of the wild fire, like the one we face multiple times here in Singapore or a nuclear reactor accident like the Fukushima or Chernobyl causing a radioactive wind to a larger geographic zone, business travelers visiting heavily polluted industrial cities, chemical and biological warfare etc. A pure air generating system can be designed by coupling an electrolytic system for generating pure oxygen from the water (Just 18 ml water releases 22 L of pure oxygen) and a sustainable CO2 scrubbing system from the materials that selectively adsorb CO2 from the air and then releasing the same by exhaust on altering the temperature.

- 100% oxygen for supporting patients at home: Delivering heavy oxygen gas cylinders repeatedly at homes to support patients (Recovering from cardiac failure, Respiratory failure, Organ transplantation and others) is an inconvenience. A system that can continuously generate 100% oxygen from water is a more reliable solution for them.
- Hydrogen gas from water as the green fuel : The electricity generated by solar and wind power can be utilized to generate hydrogen by electrolysis from water. Hydrogen used to be a gas that is difficult to store under pressure. But now there are smart materials that help to store hydrogen more or less like the LPG stored in cylinders.
- Platform for dummies to write apps
- A robot that can be trained to do whatever you want
- Smart autonomous vehicle that can self-park and pick up vehicle owners like an automated valet service
- Small spectrometer that can measure food nutrition. Like this <https://www.consumerphysics.com/> - but this is an evolving science. You can point and click to figure out the nutritional value of food.
- Wireless AC (electricity)
- Perfume that is personalized based on body odor