## Autumn term:

1. Sensing and Internet of Things

Shortlist:

1. Data to Product Email him.
2. Design Psychology
3. Robotics Research Project

dragging and dropping the options into your preferred order:




## Writeups

### Sensing and Internet of Things

The topics in sensing and IoT are completely in line with my career path along with my masters project topic. I want gain a deeper understand if the systems involved and get hands on and practical knowledge about how I can use iOS devices and learn about the various network capabilities. The interface between human nature and technology is what is really fascinating for me. In today's modern society almost every machine is turning smart, from vacuum cleaners to even refridgerators or alarm clocks. It also complemetns my work in my placement where I was developing mobile applications.

### Design Psychology

I believe that truely successful beautifully designed products do not need any user manual to learn how to use. If I consider the iPhone for example, anyone can simply just start using it as soon as they pick it up. Even a product like the One Wheel, it doesn't have a controller and wherever the user shifts their weight, it moves in that direction. These products play on the pschology of the user and are carefuly designed around how a user would interact with it the first time. I want to learn how I can achieve that. I want to focus on the different aspects of UX and how they play on the pscychology of users.

created with craft

### Responsible Engineering, Design and Innovation

I think it is very important for us to understand the different perspectives stakeholders hold around a particualar PSS. In my placmenet as well, I intracted with a variety of stakeholders, from employees to users, and realised everyone has their own unique perspective on things. I even used mockup and prototypes to gain valuable insights from them. However, I found that it was challeging to balance all these perspectives and prioritise one over another. I want to learn more about this and how this conflict of opinions can lead to further innovations by using frameworks and communicating those effectively though the designs.

### From Data to Product

In this elective it directly correlates to my new interest in using data to analyse system performance for a business. Over my placement, I got the opportunity to oberseve a variety of business intelligence systems at my organisation. From that, it sparked my interest in how these system's can be viewed using dashboards and dynamic charts to visually performance. Additionally I want to to learn more about R and Julia. Throughout the MEng course, I have grown to enjoy coding related modules a lot and I believethis one would enable my knowledge to grow to a new level allowing me to apply my Design Engineering skills in moer areas as well.

### Robotics Research Project

I have been realy passionate about robotics since the robotics module we had done last year. I have even been following companies like x1 and Boston dynamics since a few years now and have always wanted to understand and learn about the interaction between robots and humans. A few of the questions that inspire me are: How can robots add value to our daily lives? How to design strong yet compliant robotic systems such that they are safe around humans? How can we make robots adaptable to a dynamic external environment?

### Modelling and Simualtion

I want to take modelling and Simulation because, the first step in any design engineering problem should be modelling the problem and testing it through a simulation. This is time and cost effective way of quickly coming up with a solution to a problem. A lot of analysis is required throughout this process such as, visually graphing the resutls, exploring the affect of different variables and communicating the outcome affectively to your stakeholders.

### Design Analytics for the Sharing Economy

Sharing economy is the future and it will be very useful to learn because we will be able to efficiently use our finite resources for the welfare of everyone in society. Furthermore, companies like BlinkIt and Zepto in India really need to balance their systems to share the riders and other resources to make their system sthe most efficient they can be.

created with craft