



Martin Ho Zhengyi

Business Analytics and Operations Research • Artificial Intelligence

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About Me

Currently a 2nd-year student studying Engineering at the Singapore University of Technology and Design (SUTD) under the Engineering Systems and Design Pillar (ESD). I major in Business Analytics and Operations Research with a minor in Artificial Intelligence. I have interests in Data Analytics and Data Engineering, having worked on some projects during my tenure there. I believe that my willingness to learn, good communication skills, drive to succeed and relevant studies will allow me to prosper in the role assigned. I have held multiple leadership positions throughout my education journey as well. I will also be graduating with a Bachelors in Engineering Systems and Design in 2021.

Education

National Junior College (NJC)

Jan 2010 - Nov 2015

Integrated Program (IP)

A Level's Certificate, Rank Point: 75

- Student Coucillor - House Coordinator: Organized and headed multiple events that created a more vibrant lifestyle in the school. Events Include: Graduation Night, Orientation, Funtasia, Investiture
- Captain of Tennis Team: Led the team both during training and in National School Games. Achieved top 8 position.
- Member of Cricket Team: Participated regularly as a member and competed in the National School Games

Singapore University of Technology and Design (SUTD)

May 2018 - present

Engineering Systems and Design (Graduating 2021)

Business Analytics and Operations Research with minor in Artificial Intelligence

GPA: 4.14/5.0

- President of University Basketball Team: Handled most of the admistrative work and introduced new procedures in order to ensure sutainability of the team
- Member of MakerSpace Club: Constructed a foosball table, pinball machine. Participated in Makerfaire 2018 and Park(ing) Day 2018 to showcase projects
- Member of Roteract Club: Facilitator for Science, Technology, Engineering and Mathematics (STEM) program that teaches primary school students in the basic engineering elements. Facilitator of YEAH! program that teaches students from Tampines West Community Club.
- Recipient of TF International LEARN scholarship programme.

Zhe Jiang University, China (浙江大学)

May 2019 - Aug 2019

Summer Exchange Programme: Design and Technology Experience (DATE)

Achieved Excellence Award

- Measuring Customer Satisfaction using Brain Signals (Machine Learning Project): Led a team to complete a machine learning project that uses brain signals and action recognition to determine if individual's were satisfied based on a service provided
- Origami Robots Course: Designed a robot that is responsive to its surroundings with the use of origami folding and arduino microcontroller
- Design Fiction Course: Created a video that conveys information simply about the functionality and usage of technically devices in the form of a story

Skills

Programming

Python
R
SQL
Javascript
D3.js
HTML
CSS
Arduino

Design

Microsoft Word
Microsoft Excel
Microsoft Powerpoint
Adobe Illustrator
Adobe Premiere Pro

Management

Leadership
Open-minded
Good Communication
Fast-learner
Team Player

Notable Projects

- **Visualization Model for AXA IM's Valuation Model**
 - Created an interactive Visualization Model that allowed clients an intuitive understanding of AXA IM's complex proprietary valuation model
 - Visualization made use of Javascript, D3.js, HTML and CSS
- **Measuring Customer Satisfaction w/ Brain Signals (Machine Learning Project)**
 - Made use of Machine Learning techniques (CNN, RNN) to predict customer satisfaction based on brain signalling and action detection
 - Made using Python, Tensorflow and Keras Packages
- **Built Virtual Environment extension for Dating Apps**
(3rd Place @ Junction X Singapore Hackathon)
 - Created a virtual environment for users to use in tandem with dating apps to allow for better interaction without losing the anonymity
 - Made using A-Frame, HTML, CSS and Socket.IO
- **Centralized Calendar**
 - Created a calendar that was accessible to both students and teachers to prevent clashes in deadlines
 - Calendar made use of Python, Google Firebase and Google Calendar API
- **Active Keychain for young children**
 - Created a keychain for young children that encourages exercise and interaction
 - Made using Arduino