

Education

Nanyang Technological University (NTU), Renaissance Engineering Programme (REP) Aug 2016 – Dec 2020

- Master of Science (Technology Management)
- Bachelor of Engineering Science (Mechanical Engineering) Honours (Highest Distinction), CGPA: 4.9/5.0
- Dean's List for Academic Year 2016/17

Northwestern University, Evanston, Illinois Sep 2018 – Jun 2019

- Segal Design Certificate (set of courses and projects that build design knowledge and skills)

Achievements and Projects

Final Year Project, reconstruct the 3D model of room architecture from photographs using Fully Convolutional Networks implemented with PyTorch Aug 2019 – May 2020

PSA Game-It 2017, mobile game-making competition hosted by PSA Aug 2017 – Oct 2017
Top 8 finalists

SIA App Challenge 2017, app-making hackathon hosted by Singapore Airlines Oct 2017
Participant

NTU, C3 Games Creation Workshop, game development using Unity and C# Oct 2016 – Nov 2016
First Prize

Work Experience

Test Engineer, Dyson Ltd, Singapore Mar 2021 – Present

- Drive test system efficiency and accuracy by fully or partially automating test rigs
- Enhance test data processing capabilities through Python and MATLAB scripts
- Enhance image analysis capabilities within the Dyson Global Product Verification and Test team
- Lead test method development projects and engage various stakeholders throughout the process

Intern, Dyson Ltd, Singapore May 2020 – July 2020

- Design an automated multi-function test jig using SolidWorks
- Implement high-level test operation GUI with LabVIEW

Intern, Dyson Ltd, Tetbury Hill, Malmesbury, UK Jun 2018 – Sep 2018

- Reduce reliance on physical tests through digital simulation of electrical-thermal behaviour of batteries
- Improve usability of the battery model by developing a GUI using MATLAB App Designer

3SG, National Service (Singapore Armed Forces) Feb 2014 – Feb 2016

- Silver Bayonet, Transport Specialists Cadet (Apr 2014 – Dec 2014)

Co-Curricular Activities and Leadership

NTU, Vice Chairman of Makers Club Aug 2019 – Aug 2020

NTU, Chairman of REACH (REP local service-learning wing) Aug 2017 – Jun 2018

Skills

Programming

- Programming Languages: C, C#, C++, Java, MATLAB, Python, LabVIEW, HTML/CSS
- Platforms: Unity, Android Studio, Microsoft Visual Studio, Arduino, Harmony

Software

- Microsoft Office Suite
- Adobe Photoshop, Illustrator
- Solidworks, Onshape, Fusion, NX
- OpenCV, TensorFlow, PyTorch

Fabrication

- 3D print, laser cut, water jet, assorted workshop tools

Languages

- Proficient in English and Mandarin

Hobbies and Interests

Chinese flute (Grade 8 proficiency)