

Steven Lee

MECHATRONICS ENGINEER · SOFTWARE ENGINEER

Melbourne, Australia

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Summary

Final year Master of Engineering student majoring in Mechatronics, with successful exchange and internship experiences. Professional, creative and flexible team player with proven analytical and technical skills. Seeking opportunities to leverage skills in data science, engineering and research.

Education

The University of Melbourne

Melbourne, Australia

M.Eng. in Mechatronics Engineering

Feb. 2018 - Dec. 2020

- Weighted Average Mark: 82.5 (First Class Honours)

University of Illinois at Urbana-Champaign

Urbana-Champaign, U.S.A.

Exchange Program in Computer Science

Jan. 2019 - Jun. 2019

- Semester long exchange program with focus on AI, computer vision and robotics.
- Completed program with GPA: 4.0

The University of Melbourne

Melbourne, Australia

B.S. in Mechatronics Engineering

Feb. 2015 - Dec. 2017

- Weighted Average Mark: 80 (First Class Honours)

Work Experience

Acusensus

Melbourne, Australia

Software Intern/Engineer

Jun. 2019 - Feb. 2020

- Acusensus is a Melbourne Accelerator Program based start-up which focuses on reducing distracted driving and preventable road-trauma.
- Responsibilities include developing demo software for client, training and validation of neural networks, modifying existing neural network library to support additional features, regression testing for software release.

University of Melbourne

Melbourne, Australia

Academic Tutor

Jul. 2018 - Nov. 2018

- Tutor for Engineering Systems Design 2 (ENGR10003) first year subject introducing digital systems, MATLAB programming, mechanics analysis.
- Presented workshop contents and marked student assignments on weekly basis.
- Demonstrator for Engineering Computation (COMP20005) second year introductory C programming subject.

Viva Energy Australia

Geelong, Australia

Mechanical/Mechatronics Engineering Intern

Nov. 2017 - Feb. 2018

- Conducted investigation into an air compressor which is approaching its 'end-of-life' phase.
- Qualitative and quantitative analysis of life extension vs replacement options.
- Evaluated different vendors and recommended suitable replacement unit.
- Investigated various engineering scopes including mechanical, electrical and civil required for completing replacement project.
- Produced report documenting all associated costs and procedures and presented outcome to refinery leadership team.

Synnex Australia

Melbourne, Australia

Warehouse Inventory and IT Services

Dec. 2015 - Jan. 2016

- Worked in warehouse inventory and prepared/bundled products ordered by clients.
- Later transitioned to IT Services to complete a large-scale for preparing 700+ school laptops for client.

Synnex Australia

Melbourne, Australia

Product Content Update

Jan. 2015 - Feb. 2015

- Joined internal e-commerce team to conduct content update over wide range of products.
- Worked with the Synnex New Zealand team to build future product launch.

Honors & Awards

2019	Engineering Exchange Scholarship , exchange program to University of Illinois at Urbana-Champaign	Australia
2018	Melbourne Global Scholars Award , exchange program to University of Illinois at Urbana-Champaign	Australia
2018	2nd Place , National Instruments Autonomous Robotics Competition (APAC Region)	Australia

Projects & Extracurricular Activity

Melbourne University Racing (MUR)

Melbourne, Australia

Autonomous Perception Engineer

Jan. 2020 - Dec. 2020

- Tasked to produce an engineered design and implementation of a vehicle perception system.
- Key responsibilities include problem formation, concept selection, design, assembly and testing of driverless system.
- Camera and/or LiDAR selection and calibration, hardware integration, data collection, and learning, as well as design and implementation of perception, visual odometry, and/or localisation and mapping algorithms.

SuperHack 2019

Melbourne, Australia

Head Mentor

Nov. 2019 - Dec. 2019

- Volunteered in annual high-school engineering hackathon for young women hosted by Melbourne University Electrical Engineering Club.
- Coordinated with other mentors and the admin team to prepare the relevant materials and contents.
- Assisted with training workshops and provided support to other student mentors.
- Participated in the two-day hackathon and provided mini-tutorials and guidance over robot assembly and Arduino programming.

Autonomous Robotics Research Program

Melbourne, Australia

Mechatronics Engineer/Team Lead

Feb. 2018 - Dec. 2018

- Coordinated and lead a team of 8 people to participate in an international robotics competition – National Instrument Autonomous Robotics Competition 2018.
- Completed competition with 2nd place overall after competing with 16 teams from different countries in Asia Pacific region.
- See blog post at <https://stevenlee090.github.io/niarc-reflection/> for more details.

SuperHack 2018

Melbourne, Australia

Mentor

Oct. 2018 - Dec. 2018

- Volunteered in annual high-school engineering hackathon for young women hosted by the Melbourne University Electrical Engineering Club.
- Attended briefings and training workshops, collaborated with other mentors and the admin team before and during the event.
- Participated in the two-day hackathon and provided mini-tutorials and guidance over robot hardware and Arduino programming.

Engineering Mathematics, Department of Mathematics and Statistics

Melbourne, Australia

Student Staff Liaison Committee Member

Feb. 2016 - May. 2016

- Coordinated with professor and fellow students to provide course feedback using online surveys.
- Participated in mid-semester meeting to discuss survey results and potential ways of improvements.

Skills

Front-end	Hugo, Jekyll
Programming	Python, C, LabVIEW, LaTeX
Languages	English, Mandarin
CAD	Autodesk Fusion 360
Photography	Adobe Lightroom, Adobe Photoshop

Professional Membership

2020 **Student Member**, Engineers Australia

Australia