

Zwe Lin Htet (David)

Electrical and Computer System Engineering Major

Email: zwe.david.htet@gmail.com | Mobile: 0459058069 | Website: www.david-htet.id.au/

I am a self-driven electrical engineering student in his final year with a passion for autonomous cars and control systems. I possess proficient data analytics skills in Python and MATLAB, and am well-versed in Robot Operating System (ROS) for robotics application. I also have a proven track record of working independently and in teams, and consistently delivering professional results on time.

Education

Monash University, Clayton	(2016 - 2020)
<ul style="list-style-type: none">- Honors Bachelor of Electrical and Computer Systems Engineering- Dean's Honors List: 84.146 Weighted Average Mark- Higher Achiever Award Scholarship Holder- Monash Summer Research Scholarship Holder	
Monash University Foundation Program, Sunway University	(2015 - 2016)
<ul style="list-style-type: none">- Jeffery Cheah Entrance Scholarship Holder- Graduated with 92.75 Weighted Average Mark	

Work Experience

Monash University	
Research Assistant – Data Collection and Analytics	(November 2019 – Feb 2020)
<ul style="list-style-type: none">- Performed movement data collection on AFL elite athletes using wearable sensor nodes (IMUs)- Processed joint angles of athletes' lower body from the raw data collected using MATLAB- Generated questionnaires to assess elite athletes' states of mind, and level of perception	

Volunteering Experience

Monash Nova Rover	Monash University
Software/Autonomous Engineer	(September 2019 – Present)
<ul style="list-style-type: none">- Propelled the team from 9th place in 2019 to 14th place in 2018, out of 35 competing teams- Acquired code organization and tracking skills through the use of GIT- Developed and implemented Path Planning algorithms, and Path Controllers- Created a Gazebo simulation environment to improve safety for testing purposes.- Assisted in sensor selection and performance analysis to meet budget plans	
IEEE Monash Student Branch	Monash University
Events Manager	(July 2019 – Dec 2020)
<ul style="list-style-type: none">- Displayed a strong understanding of logical matters, in organizing IEEEExtreme – 24-Hour Programming Competition for the Victorian Section – for 100 people- The above and other events involved in creating a schedule and budget and organizing catering- Exhibited people skills in liaising on joint event proposals from affiliated partners- Raised awareness of the organization's values and inception- Awarded 1st place position for being the best student branch in the Victorian Section	

Digital AI Summit Melbourne

Ushering and Registration

MCEC
(March 2019)

- Contributed to the running and welcome of smooth information sessions
- Trained in event management and organization from Humanitix.
- Gained an appreciation for current state-of-the-art AI technologies and its applications.

Real-Time Learning Australia

Robotics Facilitator – Student Mentor

Robert Bosch
(July 2019 – Sept 2019)

- Supervised 5 primary students on basic coding, CAD, and Robotics
- Ensured smooth operations of the learning and teaching workshop.

Competitions and Personal Projects

PenguiPi Robot

Monash University
(Aug 2020)

Intelligent Robotics Course

- Trained in EKF Sensor Fusion, Mapping and Localization, Path Planning and Artificial Intelligence methodologies
- Assembled a fully robotic system to achieve autonomous navigation
- Deployed YoloV5 object recognition system to navigate through obstacle prone environment

Anti-Sleep System

Monash University
(March 2019)

Monash University Hardhack

- Engineered safety system for drowsy drivers by integrating several sensors that monitors sleepiness.
- Deployed a computer vision method to track eye blinks and yawns.

Modubrace for Scoliosis Patient

Melbourne University
(July 2019)

Hippocratic Hackathon

- Achieved 1st Place in 5-person team for design sustainability, cost-effectiveness, and feasibility
- Integrated Electrical Muscle Stimulation (EMS) into an existing brace design to combat muscle atrophy

About Me

Technical Skills

C/C++, MATLAB, Excel, Python, Linux, ROS

Web & Design

Adobe Photoshop, HTML/CSS

Languages

English; Fluent in Burmese

Interests

Analog and Digital Electronics, Web Design, Machine Learning, Robotics, Telecommunication, CAD, PCB Designs