**Zwe Lin Htet (David)**

**Electrical and Computer System Engineering Major**

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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

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| **Monash University, Clayton** | (2016 - 2020) |
| * 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 | |

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| **Monash University Foundation Program, Sunway University** | (2015 - 2016) |
| * Jeffery Cheah Entrance Scholarship Holder | |
| * Graduated with 92.75 Weighted Average Mark | |

Work Experience

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| **Monash University** | |
| Research Assistant – Data Collection and Analytics | (November 2019 – Feb 2020) |
| * 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

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| **Monash Nova Rover** | Monash University |
| Software/Autonomous Engineer | (September 2019 – Present) |
| * 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 | |

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| **IEEE Monash Student Branch** | Monash University |
| Events Manager | (July 2019 – Dec 2020) |
| * Displayed a strong understanding of logical matters, in organizing IEEEXtreme – 24-HourProgramming 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 | |

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| **Digital AI Summit Melbourne** | MCEC |
| Ushering and Registration | (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. | |

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| **Real-Time Learning Australia** | Robert Bosch |
| Robotics Facilitator – Student Mentor | (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

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| **PenguiPi Robot** | Monash University |
| Intelligent Robotics Course | (Aug 2020) |
| * 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 | |

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| **Anti-Sleep System** | Monash University |
| Monash University Hardhack | (March 2019) |
| * Engineered safety system for drowsy drivers by integrating several sensors that monitors sleepiness. | |
| * Deployed a computer vision method to track eye blinks and yawns. | |

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| **Modubrace for Scoliosis Patient** | Melbourne University |
| Hippocratic Hackathon | (July 2019) |
| * 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

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| **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 |