**Zwe Lin Htet (David)**

**Electrical and Computer System Engineering Major**

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Zwe Lin is a self-driven engineering student in his final year, who is passionate about power and control systems. Zwe Lin is proficient in using ROS for robotics applications, Python and MATLAB for data analysis. Zwe Lin has been commended by his colleagues and mentors for his resolute work ethics and dedication to achieve success in the work he does. As an aspiring electrical engineer, Zwe Lin is always keen to learn and innovate new ideas.

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 |

Work Experience

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| **Monash University** | |
| Research Assistant – Data Collection and Analytics | (November 2019 – Present) |
| * Performed movement data collection on AFL elite athletes using wearable sensor nodes (IMUs) | |
| * Estimated joint angles of athletes’ lower body from the raw data collected | |
| * Developed questionnaires to assess elite athletes’ states of mind, mood, fatigue, and level of perception | |
| * Carried out injury risk estimation by analyzing the movement data and athlete self-reports/diaries | |

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| **Monash Nova Rover** | |
| Software Engineer | (September 2019 – Present) |
| * Handled and oversaw high-powered radio communication between the rover and the base station | |
| * Developed and implemented path planning algorithms such as A\*, D\* and bug motion. | |
| * Simulated the rover in gazebo environment to test the robustness of path planning algorithms | |

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| **Real-Time Learning Australia** | |
| Robotics Facilitator – Student Mentor | (July 2019 – Present) |
| * Mentored young Australians on the basic coding and robotics skills, and the use of Arduinos | |
| * Ensured smooth operations of the learning and teaching workshop | |

Volunteering Experience

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| **IEEE Monash Student Branch** | |
| Events Manager | Monash University (July 2019 - Present) |
| * Promote and raise awareness on the values and the establishment of the organization | |
| * Organized IEEEXtreme – 24-Hour-Programming Competition for the Victorian Section | |
| * Schedule, budget and plan catering options for major events * Reviewed and liaised joint event proposals from affiliated | |

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| **Digital AI Summit Melbourne** | |
| Ushering and Registration | Monash University (March 2019) |
| * Learned firsthand about event management and organization from Humanitix | |
| * Attended talks on current state-of-the-art AI technologies and its applications | |

Competitions and Personal Projects

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| **Anti-Sleep System** | |
| Monash University Hardhack | Monash University (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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| **Byte-by-Byte** | |
| Bit by Bit Hackathon | Monash University (August 2019) |
| * Created an app for Android and IOS which projects food menu items onto Augmented Reality space to increase customers’ confidence | |
| * Learned Swift and the use of Xcode for creating the user interface, testing and debugging of the IOS app | |

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| **Modubrace for Scoliosis Patient** | |
| Hippocratic Hackathon | Melbourne University (July 2019) |
| * Integrates Electrical Muscle Simulation (EMS) into existing brace design to tackle muscle atrophy | |
| * Achieved First Place for sustainability, cost-effectiveness, and feasibility | |

Education

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| **Monash University, Clayton** | (2016 - Present) |
| * Honors Bachelor of Electrical and Computer Systems Engineering | |
| * Dean’s Honors List: 84.146 Weighted Average Mark | |
| * Higher Achiever Award | |
| * Monash Summer Research Scholarship Holder | |

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