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AUNG KAUNG MYAT

github.com/akmyat14

WORK EXPERIENCE

Undergraduate Research Assistant	UW Sensors, Energy, Automation Laboratory	September 2021 - Current

Stoma
- Part of the stoma team working to help reduce poor stoma fits for ostomates by using LiDAR scanning and processing with machine learning algorithms from latest iPhone to produce a better fit.
- Implemented front-end for mobile application using **Flutter**, **Dart**, **Git**, **Firebase** in support, help, and scanning pages.
- Worked on using open-source modelling software to find better calculate ostomate fits and implementing intermediary machine learning algorithms to create final model.

Embedded Software Engineer	Husky Robotics	September 2020– September 2021

- Part of electronics subsystem team in Husky Robotics for annual competition in the International Rover Challenge
- Part of team to implement embedded program for the power distribution circuit board by drafting finite state machines, and developing it using **C** in **PSoC creator**
- Learnt CAN protocol basics, reviewed existing codebase, and ensure integration of the power distribution board with the rest of the hardware system and communication with other firmware.

EDUCATION

Seattle, Washington	University of Washington	Expected Graduation: June 2024

- BS in Computer Engineering within Allen School of Computer Science & Engineering. GPA: 3.7
- Undergraduate Coursework: Data Structures & Parallelism, Scientific Computing, Hardware/Software Interface, Foundations of Computing I, System and Software Tools, Calculus I, II, & III

TECHNICAL EXPERIENCE

Projects
- **Quantitative Stock Modelling**(2022)
  https://github.com/akmyat14/financeproject
  Used **Python**, **NumPy**, **SciPy**, **MATLAB**, **Tkinter** to use the Black-Scholes-Merton Model to predict call and put options on stocks and comparison to current prices using **REST API** calls to Polygon.io
- **Stoma Mobile App**(2022)
  https://github.com/stoma-seal/osto-mate(*Private team repository)
  Application to scan stoma with tutorial, help, support, forum, and various other pages. 3D modelling built in back-end. **Flutter, Dart, Firebase**
- **Kanye's Albums**(2022)
  https://github.com/akmyat14/kanyealbums
  Webpage of Kanye's albums with animations, lyrics, and quick synopsis. **HTML**, **CSS**

ADDITIONAL EXPERIENCE AND AWARDS

- **Dean's List (2020-2021):** Maintained GPA above 3.5 for freshman year
- **Finalist, MoCOM E-Commerce Innovation Challenge:** Placed as finalist for designing web platform to redistribute unused capital between SMEs to reduce financial burdens

Languages and Technologies
- C; Java; Python; SQL; JavaScript; HTML; CSS; JavaScript; Bash/Linux; Flutter; Dart;
- Bootstrap; Django; Tkinter; React; Git; NodeJS; Firebase; PSoC Creator; NumPy; SciPy; MATLAB