Cole Feely

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Commonwealth Honors College student with a background as both a Software and Sales Engineer looking to bridge the gap between engineering and innovative technology with businesses and people

EDUCATION

University of Massachusetts Amherst

Bachelor of Science; Computer Engineering, Economics Minor Candidate *Spring 2023*

Commonwealth Honors College, 3.8 GPA

TECHNICAL EXPERIENCE

Dell Technologies Austin, TX

OEM Sales Engineering Intern *June 2022- Aug. 2022*

- Created a tool for Sales Engineers and Technical Consultants to quickly discern which GPU was best for their client's intended workload with Dell Servers; sparked a greater conversation and project across the company
- Worked with leading GPU brands like NVIDIA, AMD and Intel to analyze their products and their applications; Interviewed and networked with client companies to further gauge market opinions and happenings
- Presented this tool, my pitch and predictions according to recent market trends to multiple executive teams across the company
- Attended Executive Board client meetings and contributed to conversations on go-to market strategies
- Created a reference tool for Technical Consultants when working with clients to quickly determine which other products are needed for the solution to eliminate unnecessary inquiries with other parts of the company, saving time and improving profits

Microshare ® Haverhill, MA

Software Engineering Co-op *May 2020- Sept. 2021*

- Built both a front-end Ember application and back-end API to query an SQL database with critical company information using SQL, JavaScript, Java, CSS, Bootstrap, handlebars and HTML; hosted via the Azure Cloud
- The app was built for developers to easily manage back-end data using a well-designed and comfortable front-end interface
- Built API environments for clients to interact with their data on the Microshare data lake
- Created the Microshare documentation website used by clients globally to help their developers use their IoT solution

Computational Tools for Electrical and Computer Engineering Tutor *Sept. 2021- Present*

- Selected by Professor to host weekly office hours to answer students' various questions on assignments in MATLAB, EXCEL, other programming languages and electronics design

UMass Robotics Team Amherst, MA

Co-Lead Electronics and Battery Management Engineer *Nov. 2020- Jan. 2022*

- Team member of the student-organized robotics team that competes in the NASA Lunar Robotics competition; building a fully autonomous robot that can search through sand for intended objects and return to base
- Lead designer of the robot's battery management system; designing the distribution of power from LiPo batteries to the various motors, microcontrollers, sensors and servos governed by electronics to prevent fire hazards

PROJECTS

Domum: Senior Design Project

Project Manager and Logistics Lead *Sept. 2022- May 2023*

- Domum is a low cost and easily installed IoT system designed for elders with mental or physical disabilities looking to lead an independent life at home or for retirement homes and hospitals
- Domum uses low-power sensors along with machine learning to monitor the house for dangerous events or out of the ordinary living patterns and alerts caretakers and emergency contacts without intruding on the user's privacy

Connect-4 Artificial Intelligence *April 2022*

- Created an Artificial Intelligence that used different search algorithms to optimally play Connect 4 and different versions of the game with customizable board dimensions which was pinned against other teams

RELEVANT COURSES

Artificial Intelligence AI Based Wireless Network Design Economics Money and Banking Advanced Programming

SKILLS

Coding/ Software: Python, JavaScript, Linux OS, SQL, MATLAB, Java, C, C++, Verilog, CSS, Bootstrap, Bash, Awk, GitHub, Quartus, Qsys, Excel

Electronics: ARM, Nios, DE1, FPGA, Microprocessors, PCB and Electronics design, AtMega Chips, Arduino, Raspberry Pi

Hardware/ Tools: Soldering, Metal Welding, Multimeter, Oscilloscopes, Function Generator