Thomas Vy

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A motivated and reliable software engineering student in my third year with a programming background in robotics and automation. Currently seeking an internship for 16 months starting May 2019.

EDUCATION

Bachelor of Science in Software Engineering September 2016 – Present
Schulich School of Engineering, University of Calgary

- GPA 3.87/4.00
- Expected Graduation in 2021 with internship

SKILLS

- **Proficient Languages:** C/C++, C#, Java, Python, Processing
- **Familiar Languages:** HTML5, JavaScript, Cascading Style Sheets, MIPS Assembly
- **Operating Systems:** Linux, Windows 10/8/7, MacOS X, Robot Operating System
- **Other Technical Skills:** Data Structures and Algorithms, Git and GitHub, Data Base Management Systems, Computer Networks, Socket Programming
- **Communication:** Presented and suggested innovative ideas to classmates in various settings such as group projects, assignments, and presentations
- **Leadership:** Demonstrated the ability to coordinate others in a group such as assigning tasks for robot movement compatibility
- **Teamwork:** Flexible mindset with the ability to sacrifice self-benefit for the greater good of the group
- **Written Communication:** Successfully completed a Technical Communication course with B+; developed analytical skills and techniques to convey topics in a professional manner such as website usability and formal reports

RELEVANT EXPERIENCE

Summer Researcher May 2018 – August 2018
Robotics and Sensor Network Group, University of Calgary

- Programmed a navigation system using C++ and Python that allows a robot to travel to an unknown area
- Helped create a laser mounting device on the lab's robot
- Successfully developed a C++ mapping program based on laser data
- Incorporated navigation system with robot to allow autonomous movement
- Taught colleagues ROS, C++, and Python

Software Team September 2017 – April 2018
Schulich Unmanned Aerial Vehicle, University of Calgary

- Created a Python program to merge two individual planned paths together for the airplane
- Designed a multi-threaded server and client application for communication between the primary server and multiple clients to process images faster
- Analyzed camera qualifications to find a camera that can get live feedback and record at the same time
- Investigated an operating system called FlytOS to work with the Raspberry Pi inside the airplane to understand the features and capabilities of the operating system

OTHER EXPERIENCE

Sales Associate June 2015 – January 2016
CrossIron Mills Mountain Warehouse, Rocky View No. 44, Alberta

- Exceeded sales target by an average of 10% every week
- Developed professional communication skills by working with management and customers
- Cooperated with team members to work successfully in a fast-paced environment
- Collaborated with other staff members to ensure efficient customer flow within the store

ACHIEVEMENTS

- Outstanding Java Final Project, ENSF 409 (task was to create a server and client application for professors and students to use to access their school work): 2018
- Jason Lang Scholarship: 2016, 2018
- Dean’s List, Schulich School of Engineering: 2016, 2017
- Dean’s List, Faculty of Science: 2015