



Firmware Developer

About SFU Robot Soccer Club

SFU's Robot Soccer club aims to combine the excitement of soccer with the future of automated technology as we compete in RoboCup Soccer competitions. Our team encourages students from all programs to come together and learn concepts that are not taught in class and get hands-on experience with robotics, artificial intelligence, and teamwork. At SFURS, our sub-teams work together to build a team of autonomous soccer-playing robots, blending all aspects of artificial intelligence and robotics.

About this role

As a Firmware Developer on the firmware team, you will be consistently working on the firmware of the circuit boards that power our robots, developing and optimising the code that enables our robots to compete at their best. In other words, firmware takes the hardware and allows our circuitry to interact on the conditions we desire. The firmware coding will be done in the C language and will be primarily focused on changing the code of the actual robot, to allow the entire robot to function to its desired capabilities. For this role, we are seeking individuals who are passionate and committed to firmware programming, and problem-solving.

Responsibilities

- Implement the firmware for the electronic circuit boards
- Perform testing of firmware code on the robots and robotic components
- Write high quality documentation for your work

Location

- SFU Burnaby Campus

Candidate requirements

- Self motivated to work
- Knowledgeable in writing C
- Capable of understanding and interpreting datasheets
- Possess basic understanding of electrical component functionality
- Passionate about firmware development and willingness to learn new skills and concepts