Robotics Engineer

Description
A Robotics Engineer at CSR designs, builds, and tests machine prototypes, as well as develops and maintains the software that controls them. They also conduct research to find the most cost-efficient and appropriate process(es) to manufacture the robotic components.

Responsibilities

- Design and model hardware and electrical components for in-house or third party manufacturing using 3D CAD, CAM, CAE software

- Develop and integrate ROS packages for robotic systems

- Use and maintain FDM 3D printers

- Assemble/disassemble robotic systems

- Iterate through system prototypes to optimize performance and reliability

- Create and maintain written and graphical technical documentation

- Create and execute testing procedures for hardware and software

- Operate robotic systems during field trials at remote locations

- Update supervisor daily on progresses and roadblocks

Qualifications

- Expertise with programming in C++ and/or Python

- Proficient with Fusion 360 or similar CAD, CAM, CAE software

- Proficient with Robot Operating System (ROS) and ROS packages on Linux

- Proficient and respectful communication skills

- Experience with developing robotic systems

- Experience with Fused Deposition Modelling 3D printers

- Experience soldering 1 mm (18+ AWG) and smaller wiring

- Experience in technical writing

- Experience with basic hand tools

- Able to travel periodically for system testing/trialing or for training purposes

Hiring organization
Confined Space Robotics Inc,

Employment Type
Full-time

Job Location
Nisku, Alberta, Canada

Date posted
January 7, 2022

- Able to cross Canadian and international borders without restrictions; passport and vaccination requirements are in good order

- Able to pass periodic drug and alcohol tests

- Able to be creative with problem solving