



UBC OPEN ROBOTICS

Robocup@Home Drivetrain - Mechanical Designer

Position Description:

As mentioned on our website, the Robocup@Home project involves cutting-edge R&D in the realm of service robotics. The team is progressing towards competing in the internationally-acclaimed Robocup Competition, @Home League. The Drivetrain team is responsible for designing and developing how the Robocup@Home robot will move from one location to another.

Number of Positions Available: 2

Responsibilities:

- Research materials and techniques
- Use 3D modelling software (SolidWorks/Onshape) to design product and components
- Set design requirements based on briefs from internal team and external partners
- Test prototypes and make rapid changes to improve features and performance

Preferred Qualifications:

- Minimum second year standing with experience in one or more of the following qualifications.
- Proficient in CAD prototyping with software such as Solidworks and Onshape, with emphasis on Finite Element Analysis (FEA)
- Experience in Design for Manufacture and Assembly (DFMA)
- Experience in the engineering design process
- Machine shop experience is a bonus