HiWi

Technical Engineer for Parallel and Distributed Robot Learning System

Background

Recent advancement in foundation models for robotics has highlighted the data scarcity issue in robotics community. For this we built a large-scale robot experiment system. We are looking for an outstanding HiWi (part-time) student to serve as a technical engineer in the collective learning team. This HiWi position offers a unique opportunity to gain work experience in a globally visible research group and to work with cutting-edge robotic systems, in the field of large-scale robot experiments. You will work closely with the researchers to support system development and assisting experiment operations. The work requires 20 hours commitment per week.

Your Tasks

- Technical support for robot experiments: mechanical design, 3D printing, fabricating metal parts, etc.
- automation solution for experiment processes: design automation solution creatively to automate object/tool mounting process and experiment setup.
- experiment assistant: support the researchers in experiment setup, reset, monitoring.
- Possible software engineering tasks, for example front end GUI design, data visualization, web design, database maintenance.

Requirement

- Familiar with mechanical design, 3D modelling, CAD software such as SolidWorks
- Experience in 3D printing and/or other fabrication techniques
- Knowledge in experiment design methodology
- Be patient and meticulous
- Highly motivated, responsible
- Software engineering in any of C++, Python, Database, Web front-end design is a plus

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