IREROBOT

Intern R&D Engineer

JOB DESCRIPTION

We are seeking to recruit an engineering or computer science (or relevant) student as intern, for 30 workdays in total, that will be completed within two months max, between 15 May - 30 Sep. 2023. The student will integrate in our development team and work on exciting projects in the topics of XR/MR, Wearable Robots, Haptics, etc. The intern must be able to work in a team and independently.

Responsibilities:
The student will work with a team of experienced engineers on projects that fall within the domains of haptic interfaces (i.e., VR/XR Haptics, smartphone haptics, etc.) and human-robot interaction (i.e., wearable robots). The tasks assigned to the intern will be related to one of the following topics:

- Electronics and embedded programming - interfacing hardware and software (COTS or custom-made PCBs).
- Mechanical design, simulation, dynamics and control and/or industrial design.
- Software (i.e., API) and/or app development (Html, Unity, UI such as Compose, etc.).
- Signal processing for acoustics with the use of C and/or Python, MATLAB/GNU Octave, etc.
- Control System Simulation (i.e., MATLAB/GNU Octave) and Design for DC Motors and/or IMU programming for motion tracking (i.e., in C or Python).
- Industrial Design of wearables.
- Other relevant tasks.

Qualifications:
- The candidate must be a student (graduate or advanced undergraduate) in Electrical Engineering/Mechanical Engineering/Computer Engineering/Computer science/Industrial Design or a field relevant to the duties of the post.
- Must have excellent knowledge of English (reading, writing)
- Excellent programming skills (i.e., C++, MATLAB, Python, etc.).
- Embedded programming knowledge for COTS electronics such as Arduino, RASPBERRY PI, etc.
- Familiarity with the fundamentals of PCB design and programming.
- API development or programming skills (i.e., for Android, Unity, XR/VR, etc.).
- Excellent knowledge of principles of industrial design for wearables (additive manufacturing skills is a plus).
- Excellent theoretical knowledge of either signal processing, dynamics and control, acoustics, etc.

Learning outcomes for the intern:
- Develop multidisciplinary-team-integration abilities.
- Understand agile management requirements for product development.
- Develop self-initiative and personal leadership abilities and time-management skills.
- Implement theoretical and academic knowledge through hands-on work for innovative projects.

Remuneration
Upon completing the internship, the student will receive a once-off payment from the Research and Innovation Foundation of Cyprus within two weeks after the completion day.

About Irerobot ltd

In a constantly evolving world with increasing dependence on technological innovation and progress, we aim to establish significant presence in the EU R&D ecosystem. We focus on the development of state-of-the-art solutions in the areas of robotics and human-machine interaction. Throughout our projects we remain committed to focus on meaning rather than profit and create technology that makes the world a better place. Irerobot is an equal opportunity employer (https://eur-lex.europa.eu/eli/dir/2000/78/oj).

Apply

The position is open until filled. Submit a CV and a personal statement to the following email address: recruitment@irerobot.com. For more information: evagoras.xydas@irerobot.com