Robotics Systems Intern [IDA: 2025-00025]

Descrição da função

What you'll be doing:

- Install software components on mobile robots.
- Test functionality of the whole robot system, both on real robots and in simulation.
- Develop tools for test automation and benchmarking.
- Assist in creating new software releases for different modules, like navigation, perception, etc.
- Integrate software releases and ensure stability of whole system release.
- Investigate issues with robot software and hardware.
- Document feature completeness of robot and align with customer requirements.
- Remotely coordinate tests with other locations and deployment sites overseas.

What you will be learning:

- System architecture of a complete robot that is ready for production.
- How different sensors like 2D/3D Lasers, RGB cameras, Depth cameras, IMUs etc. work.
- How different software components on a robot interact.
- ROS2, Docker
- DevOps and CI/CD for production-grade systems, using Jenkins, Github Actions, AWS

Requisitos

- Some programming knowledge, preferably in Python, C/C++, Bash or Javascript/Typescript
- Some experience with Git version control
- Knowledge on Linux based operating systems (is of advantage)
- Some experience with software testing and automation (is of advantage)
- Some understanding of robotics algorithms (e.g. SLAM, Computer Vision) (is of advantage)
- Enthusiasm to work on unknown problems and find solutions
- Willingness to learn new tools and technologies
- Good communication skills

O que oferecemos

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Quem somos

Identificação da vaga
REF82510P

Área funcional
Engineering

Local
Singapore

Pessoa jurídica
Continental Automotive Singapore Pte. Ltd.

Continental develops pioneering technologies and services for sustainable and connected mobility of people and their goods. Founded in 1871, the technology company offers safe, efficient, intelligent and affordable solutions for vehicles, machines, traffic and transportation. In 2021, Continental generated sales of €33.8 billion and currently employs more than 190,000 people in 58 countries and markets. On October 8, 2021, the company celebrated its 150th anniversary.

The Automotive group sector comprises technologies for passive safety, brake, chassis, motion and motion control systems. Innovative solutions for assisted and automated driving, display and operating technologies, as well as audio and camera solutions for the vehicle interior, are also part of the portfolio, as is intelligent information and communication technology for the mobility services of fleet operators and commercial vehicle manufacturers. Comprehensive activities relating to connectivity technologies, vehicle electronics and high-performance computers round off the range of products and services.