

Robotics Engineer

- Development of custom post-processors which allow toolpath generation directly for client machines.
- Setting up hardware in our workshop for testing and development, and integrating communication and control of the hardware into our software. (on site ~3 days)
- Designing communication architectures between client hardware systems and our application server using standard and industrial communication protocols.
- Development of software features which meet client requests and which help unlock increased functionality of their machines.
- Writing unit tests and documentation to ensure additional features maintain reliability in the product do not affect execution of generated programs on hardware machines.
- Working closely with the Customer Success team, to provide necessary technical feedback for fast responses in client communication.
- Communicating with the client in order to ascertain feature requests which may help the software unlock potential of their hardware.
- Developing custom programs which execute on company-supplied or client hardware, designed to provide deeper integration into client systems.

Experience/Requirements

- Degree in a quantitative discipline (e.g. Statistics, Computational Biology, Computer Science, Mathematics, Physics, Electrical Engineering, Industrial Engineering) or practical experience.
- Experience programming in Java, Kotlin or related language, particularly on hardware-related projects.
- Development and operational experience with offline robot programming (in at least 1 native Robot Language)
- Experience developing programs on, or that interface with industrial PLCs
- Experience leading hardware-related software projects and a strong understanding of how to communicate information, sensor data, and control actuators through a communication interface.
- Ability to design a communication architecture between our server and external machinery/other hardware devices involving handshakes, interrupt handling, error & safety handling
- Experience working with common communication protocols (e.g. serial, TCP/IP, I2C) and industrial communication protocols (e.g. Profinet, EtherCAT, Ethernet/IP, MQTT, OPC-UA)
- Excellent attention to detail with a good ability to foresee and prevent potential problems which may occur in custom hardware

Optional Requirements

- Experience in 3D printing and an understanding of Gcode, particularly within an industrial setting



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- Experience working on and developing with Linux
- Portfolio of IoT projects
- Good understanding of different orientation formats such as Euler angles, quaternions, rotation matrices, and transforming between formats
- Strong understanding of linear algebra, including transforming coordinate frames, change of bases