

Software Engineer Intern

MPS ships billions of products a year that are used in everything from consumer electronics and IoT (Internet of Things) to laptops and cars. We are transforming power electronics design for electrical vehicles, robots, large battery packs, data centers, automotive and industrial applications with memory-based programmable plug-and-play products. We are looking for an intern for our sensor division who will work on the latest generations of our angular position and 3D magnetic sensors. The person will work in MPS Switzerland offices in Tolochenaz.

Responsibilities

- Work with our engineering team to design and build software used by MPS sensor products (angle, 3D and current sensors). The candidate will be involved in some of the projects listed below.
- Develop measurement and validation software for angle and 3D magnetic sensors.
- Work on magnetic simulation algorithms for our online simulation tool.
- Design desktop applications (Qt, python, pyside2)
- Design Web based visual interface for our automated test environment (Python, Dash, Plotly)
- Develop protocol analyzer and validation platform for SENT (SAE J2716) protocol
- Develop firmware on various MCU (Arduino, mbed, STM32, ...)
- Develop internal software tools aimed at improving our test and validation workflow
- Implement QA test plan

Requirements

- Experience of software development (python, C/C++)
- Good communication skills. French or English speaker and able to write in English.
- Good team player.

Good to have

- Familiar with Python, Qt/pyside2, numpy, matplotlib, plotly, Flask
- Familiar with C/C++ (firmware, Desktop application with Qt)
- Familiar with Firmware development
- Familiar with We development (Flask, HTML, javascript, AWS)
- Keeping track of changes made to code with GitHub and Git version control system.
- Electrical Engineering background or related experience is a big plus.

Education

- Student currently following a Master or bachelor's degree in Computer Science or Electronic Engineering in an EPF or HES.
- New Graduate with a Master or bachelor's degree in Computer Science or Electronic Engineering in an EPF or HES.

Location

- MPS Switzerland Office in Tolochenaz (next to Morges)
- MPS Tech Switzerland Sàrl, Route de Lully 5A, 1131 Tolochenaz

If you are interested, contact us at

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