

Electronic 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 setups used by MPS sensor products (angle, 3D and current sensors). The candidate will be involved in some of the projects listed below.
- Develop an angular sensor latency measurement setup using a high-speed motor and optical sensors
- Design a current source with thermal management
- Design a low noise amplifier board
- Design a multi sensor module for high accuracy angle measurement
- Design a BLDC motor controller using FOC control method
- Design new measurement and validation setups for magnetic sensors
- Improve existing validations setup for magnetic sensors

Requirements

- Familiar with Schematic and PCB Design (Altium or Cadence)
- Familiar with Firmware development
- Familiar with BLDC motor controller
- Good communication skills. French or English speaker and able to write in English.
- Good team player.

Good to have

- Experience of software development
- Familiar with Python, Qt/pyside2, numpy, matplotlib, plotly, Flask
- Familiar with C/C++ (firmware, Desktop application with Qt)
- Software Engineering background or related experience is a big plus.

Education

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