



Thesis / Working Student

Electronics m/f/d



Background

SSP - Safety System Products GmbH & Co. KG is a German machine safety firm with significant presence in the safety market worldwide. Our portfolio includes custom mechanical and electronic solutions to ensure operator and process safety. Handheld machine manipulation controls are a key component on any factory floor to ensure operator safety and efficient machine control. Such controls not only provide a safe method to remotely control dangerous machinery such as welding robots, but also provide emergency stops to prevent machine malfunction.

Project description

Worldwide shortage of electronics components is causing a major disruption in the supply chains. In such conditions, agile hardware development is crucial to get products onto the market in-time. The R&D team at SSP is looking for a motivated individual to work alongside our engineers to redesign our handheld machine manipulator. You would be a part of an experienced research team that develops market competitive and cost-effective safety solutions.



Starting date
Spring semester
2022

Key learning outcomes

- As a member of our R&D team working on this project you would be trained in Altium designer, an industry leading PCB design software.
- You would be trained in agile hardware development techniques developed by our engineers
- You would be trained in component selection and evaluation keeping in view the manufacturing cost per unit
- Hardware design and debugging techniques



Qualifications

- Technical background in electrical, electronic or mechatronics engineering
- Experience in reading and understanding circuit schematics
- Experience with basic PCB design
- Experience in handling test equipment such as multimeter, oscilloscope, logic analyzer etc.
- Experience in soldering and handling SMD electronics is an advantage
- Experience in developing microcontroller firmware is an advantage
- Good spoken and written English skills

Project responsibilities

- Developing a thorough understanding of the existing product schematics
- Component selection driven by cost and availability forecasts
- Developing modular schematics and boards for testing according to the SSP conventions
- Prototyping, assembling, and testing the modular PCBs
- Product level testing
- Documenting all activities related to the project according to SSP conventions

We offer



New company building

Modern and ergonomic workplaces, fitness room and mother-child room.



Innovations

Innovative products and a motivated team in an up-and-coming company.



Flexibility

Individual working time models, room for creative and free work.



Benefits

Holiday and Christmas bonuses, capital-forming benefits, company pension scheme and team events.

Contact

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We look forward to receiving your application documents:

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