

## **POWER ELECTRONIC & HARDWARE INTERN**

### **About FEV Türkiye**

FEV Türkiye is daughter company of FEV Group. FEV is an internationally recognized leader in the design and development of both conventional and alternative transportation energy systems. The company also develops technology solutions for the energy industry and is a major supplier of advanced testing and instrumentation products and services.

We offer engineering services that add value by meeting demanding customer requirements for quality, rapid development and reduced cost. As new transportation and energy related innovations move into production, FEV delivers design, analysis, prototyping, simulation, development, integration and production support services that help ensure a successful launch of these new products.

These locations are available: YTÜ Yıldız Teknopark (İstanbul), Bilişim Vadisi (Gebze)

**We are looking for bright, hardworking, aiming for self-improvement and enthusiastic potential colleagues with a passion and aptitude for technology to develop their skills in the Automotive industry!**

### **POWER ELECTRONIC & HARDWARE INTERN**

#### **The Power Electronic & Hardware Team**

- Develop and deliver best-in-class electric vehicle control systems for hybrid and full electric vehicles
- Design xCU (VCU, MCU, etc.) hardware and power electronics (DC/DC Converters, Charger, inverter, etc.) products
- Control xCU (VCU, MCU, etc.) hardware and power electronics (DC/DC Converters, Charger, inverter, etc.) products and develop state of the art algorithms, functions
- Develop motor control with sensor and sensorless control (Kalman, resolver, encoder, hall effect sensors, etc.)
- Model-based algorithm software development in MATLAB / Simulink environment
- Develop and analyze eMachine especially induction motors and permanent magnet motors for automotive electrification applications

#### **Role Expectations**

- Undergraduate student in Electrical / Electronics / Mechatronics / Mechanical / Control and Automation Engineering disciplines
- Internship experience in automotive industry will be plus
- Knowledge of MATLAB / Simulink, Altium, LTspice, Ansys / Maxwell / Flux / MotorCAD
- Taking Embedded Software, Digital Control, System Control, Power Electronics courses at university
- Fluency in English, German will be plus
- Ability to cooperate and communicate effectively with all colleagues
- Self-starter with the ability to work as part of a team in a fast-paced environment

## **What's In It for You?**

Being a part of the FEV Türkiye provides an unparalleled experience. You'll find yourself surrounded by the team of bright minds in an international and challenging environment within the inspiring and collaborative colleagues.

- Flexible / hybrid working style
- Global R&I company work opportunity
- Work with leading technology tools
- Projects in the entire automotive industry
- Monthly Talks with all FEV Türkiye colleagues
- Human-oriented, friendly, energetic and caring corporate culture
- Working environment to use your skills, learn every day, and improve your potential
- Have an opportunity to implement your creative ideas and be remarkable
- Work autonomously and define your career on your own

**Are you ready to create your career on the incredible FEV Türkiye journey?**

**If you're excited to learn and would like to be a part of dynamic and best engineering services team in Automotive industry, come and meet us! We'll help you reach your full potential.**