

ROCKFORD CORPORATION

Rockford Fosgate is a leading automotive audio company located in Tempe, Arizona. We are looking for a highly motivated person to fill the position of Embedded Engineer. This multi-disciplined role will work with the latest technologies to design hardware and software for aftermarket and OEM audio products. This will be a high visibility position and will interact with multiple groups within the organization including Engineering, New Product Development, Marketing and Technical Support.

JOB TITLE: Embedded Engineer

KEY RESPONSIBILITIES:

- Design and develop embedded firmware based on product requirements and specifications
- Perform mixed signal hardware design including schematic capture and PCB layout
- Simulate, design, and optimize electrical circuits
- Debug, test, and optimize HW and SW designs on bench and in real-world conditions
- Work closely with Test Engineers to define and implement end-product production test systems
- Maintain and improve embedded firmware of existing products
- Generate well defined code documentation

REQUIRED SKILLS/QUALIFICATIONS:

- Bachelors in Electrical Engineering, Software Engineering, Computer Engineering, or equivalent
- 3 to 5 years of related experience
- Proficiency in C/C++ for 32-bit ARM Cortex embedded processors
- Understanding of communication protocols including USB/OTG, SPI, I2C, I2S, UART, and Bluetooth
- Knowledge of CAN-bus protocol, preferably J1939 and/or NMEA 2000
- Experience with developing BSPs and drivers for board peripherals including memory and displays
- Experience with mixed signal design and signal conditioning for ADCs, DACs, and sensors
- Knowledge of DSP building blocks including digital filtering and FFT analysis
- Ability to troubleshoot using oscilloscopes, spectrum analyzers, and Audio Precision

DESIRED SKILLS (OPTIONAL):

- Knowledge of audio and/or digital signal processing
- Experience with Linux for embedded systems
- Experience with embedded graphical HMI design
- Experience with IAR Embedded Workbench for ARM tool chain
- Experience developing automated tests using National Instruments Labview
- Advanced DSP audio signal processing algorithm design including adaptive filters, ANC, and echo cancellation
- Knowledge of EMC best practices and debugging

Interested applicants, send resume and cover letter to jobs@rockfordcorp.com.

To learn about Rockford, please visit us at www.rockfordcorp.com. We are an equal opportunity employer and value diversity in the workplace.