Electrical Engineer

Would you like to join an awesome and quickly growing team that is deploying exciting agricultural technology across the USA?

About The Company:
- Rogo is an Ag-Tech company that helps farmers apply fertilizer more efficiently. To do that, we build and operate autonomous robots that have collected over 100K acres of soil samples within the past year.
- Meet our quickly growing team at https://www.rogoag.com/team that is headquartered in West Lafayette, IN.
- Our team respects each other deeply, while at the same debating ideas fiercely to get to the best solution. At Rogo, a growth mindset >> knowledge and real results >> effort.
- Join us on our path to improve both Precision Agriculture and the peoples’ lives we touch along the way (including our own team).

Job Description
Role:
- Goal: Improve robot’s safety, cost, and usability with a variety of projects
- Identify problems, solve them, design solutions, build them, test them, repeat.
- Work independently but tackle big challenges with collaboration
- Convert projects into weekly goals and produce progress every week
- Mix of office research & design with hands-on build and testing.

Examples of Potential Projects:
- PCB Board to control driving
- Replace PLC & field wiring with CAN network
- Mini PCB Board for a variety of sensors
- Obstacle detection PCB board
- Optimize closed loop control systems for latency and accuracy

Desired Profile
Minimum:
- Great communicator, problem definer and solver, core values fit
- Breakdown problems with physics, trig, calculus & algebra
- Test design & execution, sometimes in the elements
- Data analysis & presentation in a modern tool (excel, matlab, sheets etc)

Core Skills:
- Electrical: Circuits, PCB’s, Transistor Logic, Power Mgmt and Conversion, Schematics, wire termination / connectors.
- Network Topology & Low Level Design: CAN, RS232, SPI, I2C, etc
- Signals: Analysis, Conditioning, Noise Mgmt
● Controls: Closed Loop Control (PID), Ladder Logic, Sensor feedback
● Fabrication: Willing (if not able) to build things at Rogo - soldering, assembly, etc

**Core Experience:**
● Projects: PCB design & implementation, Microcontrollers, Robotics/machine control, Design for Ruggedization: vibration- & water-proofing
● Systems: CAN or other Bus, General networking (wired & wireless), ROS

**Bonus:**
● Eagle Software Experience

**Start Date & Location**
● Start in May 2020
● Willing to work in Wolcott, IN / Lafayette, Indiana area

**Compensation / Benefits**
● Full-Time Salary (based on market, experience, & skill)
● PTO - Flexible Vacation Plan (Self-managed as long as you get your work done)

**Why apply?**
● Work with exciting Ag-technology for a purpose.
● Work with an amazing, quickly growing team.
● Challenge yourself to grow in many different areas.

**Interested?** Please go here for the application form: [https://www.rogoag.com/join-our-team](https://www.rogoag.com/join-our-team)