

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>