



Position Title: Electrical Designer & Developer

We are seeking electrical designers to help us create and test dependable healthcare products for developing countries. You will exercise your system thinking, creativity, and determination as you develop electrical systems using custom-built circuitry or off-the-shelf components. Most important skills and backgrounds are knowledge of electrical circuits, motors and power electronics, firmware and hardware. You should also be analytical with strong organizational abilities. If you are experienced or are willing to learn throughout the project, we'd like to meet you.

Responsibilities

- Understand and shape the team's strategy and mission
- Create technical specifications and targets based on products required electro-mechanical performance
- Design electrical systems using custom-build circuitry & off-the-shelf components
- Simulate and analyze system performance using CAD software
- Validate and Verify the system and product by developing feasibility and testing methods
- Prepare technical reports by collecting, analyzing, and summarizing information throughout the project
- Maintain professional and technical knowledge by reviewing professional publications; establishing personal networks; benchmarking state-of-the-art practices

Skills and Qualifications:

- Knowledgeable in principles of circuits, motors, motor control, and batteries
- Experienced with microcontrollers and Python/C/C++ programming
- Hands-on experience with wiring, soldering, electronic lab tools
- Machining and rapid prototyping such as 3d printers
- Demonstrable strategic and system thinking abilities
- Analytical mind with problem-solving aptitude
- Organizational and leadership skills
- Excellent communication skills