



Pianobot - Electrical Engineer

Position Description:

This position involves designing systems to keep control signal and power wiring reliably connected to hands while hands are moving at faster speeds.

As of the moment, the team has the power supplies and control circuit set up for the circuit. However, testing during operation for different songs need to be planned for, as well as reliable travelling for the hands.

Number of Positions Available: 3

Responsibilities:

- Attending 2 hours of meeting and planning weekly for electrical circuitry
- Working on voltage and current regulation to the solenoids
- Design circuit for regulating solenoids and hand motors
- Testing circuitry and providing recommendations to team
- Optimizing how peripherals are connected to the control system
- Designing connections to hands, as well as tests during operation
- Referring to more experienced professors and peers for design reviews

Preferred Qualifications:

- ELEC, MECHA, or IGEN students with minimum second year standing
- Time commitment of about 6-8 hours per week (including meetings)
- Strong understanding of circuit design and optimization
- PCB design experience is an asset
- Ability to debug circuits with an oscilloscope