

Pianobot - Software Programmer

Position Description:

We are looking for additional software sub-team members on Pianobot to assist in the implementation of our pathing optimization algorithm and translation to Arduino.

Number of Positions Available: 2

Responsibilities:

- Attending up to 2 hours of general and sub-team meetings weekly
- Assisting in the implementation and design of the Pianobot hands' pathing algorithm
- Programming in C++ and Arduino to implement software functionality
- Conducting tests using CLion

Preferred Qualifications:

- CPEN, CPSC, and/or ELEC students with a minimum of second year standing; third year or higher preferred
- Understanding of C++ and interest in pathing software that optimizes hand movement given different songs
- 4-6 hours per week on both pathing software, as well as microcontroller programming
- Knowledge of Arduino IDE for conversion software from source code to outputs for the microcontroller

Bonus Qualifications:

- Comfortable taking initiative and responsibility for sub-projects
- Effectively communicates with the team
- Eager to learn and provide insight