



UBC OPEN ROBOTICS

Pianobot - Software Programmer

Position Description:

The software has been developed by 2 members of our team, but fresh eyes on the current product would be very helpful moving forward. We are looking to have the Pianobot hands move with as much dexterity and speed as possible, while recognizing that they don't have to perfectly replicate how a human would play a specific song.

Number of Available Positions: 2

Responsibilities:

- Attending 2 hours of meeting and discussing code status, as well as specifying tasks for each individual to work on
- Conducting tests with actual robot, and updating optimization based on actual system parameters (latency, maximum permissible hand speed)
- Looking for ways to improve on pathing software that optimize hand movement given different songs

Preferred Qualifications:

- CPEN, ELEC, and/or CPSC students with minimum second year standing
- 5-7 hours available weekly
- Experience with programming in C++
- Experience programming microcontrollers