BRYTON MOELLER

PROFILE

I am an aspiring Software Engineer and a Junior in High School. My goal is to contribute to the progress of environmental or otherwise socially oriented projects by leveraging and further developing my software engineering skills.

EXPERIENCE

APP PROGRAMMING LEAD — 2014-PRESENT

I am in my second season as the app programming lead on FIRST Robotics Team 1678. On this team I work with a group of student and adult leaders to manage a 60 student team. I also lead a group of about six students to create a system of about eight mobile applications and their backend counterparts. I spend an average of 27 hours each week with the team. I have experience with iPad and iPhone development using both Swift and Objective-C within the Xcode IDE. I have also used Java and Android Studio to program Android applications. I have worked with Core Data, Realm, and Firebase databases to create backend, as well as the Dropbox API for file syncing. I have written servers in Python and Objective-C. *In 2015, Team 1678 won the FIRST Robotics Competition World Championships. We were victorious over 900 active teams, from 39 different countries.*

ROBOT PROGRAMMER — 2013-2014

As a freshman, I was part of a small team of programmers that worked on the robot. We used sensors and PID control to make precise movements. I focused on analysis of images taken by an on-board camera (using the OpenCV library), and their use in deciding a course of autonomous action. The robot had an on-board cRIO, which we programmed with C++ in the Eclipse IDE.

PROGRAMMING MISC. — 2011-PRESENT

In Summer of 2015, I worked for 3 months under Dr. Ian Korf at the University Of California, Davis on a Perl-based Bio-informatics project. I have little to moderate experience with Bash, AppleScript, HTML, CSS, Java Script and PHP.

EDUCATION: DAVIS SENIOR HIGH SCHOOL

My current GPA is a 4.5, I am enrolled in AP Physics, AP Calculus AB, and AP Spanish

SKILLS/CHARACTER TRAITS

I design software solutions to real problems. When appropriate I use Github and other project management tools. I am Perseverant, analytical, and assertive, communicative. I grasp new concepts quickly and am a responsible and reliable member of any team.

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