BRYTON MOELLER - SOFTWARE

PROFILE

I am an aspiring Software Engineer and a Senior 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

LEADERSHIP — 2014-PRESENT

I am in my third 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 40-100 student team. I am the team captain for the 2016-17 season, making me an ∫ part of the team's management. In this role I work do team development, team goal setting, and high level management. As App Programming Lead (2014-17), I manage a group of ~6 students to create a system of ~8 mobile applications and their backend counterparts. I work ~30h each week on team projects. *In 2015, Team 1678 won the FIRST Robotics Competition World Championships. We were victorious over 900 active teams, from 39 different countries.*

PROGRAMMING MISC. — 2011-PRESENT

I interned for 3 months under Dr. Ian Korf at the University Of California, Davis on a Perl-based Bio-informatics project. I worked (paid) for several months with Greenbotics (a Sunpower subsidiary) developing a mobile app to help with solar site planning. I have little to moderate experience with Bash, AppleScript, Lua, HTML, CSS, Java Script and PHP.

APP PROGRAMMING — 2014-PRESENT

I have experience with iPad and iPhone development using both Swift and Objective-C within Xcode. 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.

ROBOT PROGRAMMING — 2013-2014

As a freshman, I was part of a small team of programmers that worked on the robot. We used sensors and PID to make precise movements. I focused robot vision (using OpenCV) for autonomous decision making. The robot had an on-board cRIO, which we programmed with C++ in the Eclipse IDE.

EDUCATION: DAVIS SENIOR HIGH SCHOOL

My current GPA is ~4.3. I am enrolled in AP Calculus BC, AP Spanish 6, AP Comp. Lit, & Environmental Science. I have taken AP Physics & AP Chemistry

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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