

# Bryton Moeller

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## Profile

I'm a senior in High School and an aspiring engineer. My goal is to contribute to the progress of environmental and socially oriented projects by leveraging and further developing my knowledge and skills in engineering, programming and environmental science. I take pride in being a reliable member of any team. My core strengths are communication, analytical thinking and perseverance.

## Academics

*Davis Senior High School; Davis CA – Expected Graduation: June 2017*

- GPA: 4.2
- Relevant Coursework: AP Calculus AB, AP Calculus BC, AP Chemistry & AP Physics, AP Spanish Language & Culture, AP Spanish Literature & Culture, AP English Literature & Composition, Biology, Environmental Science
- Standardized Testing Results:
  - National Merit Semi-Finalist
  - SAT (Before March 2016): Critical Reading = 720, Writing = 730, Math = 800
  - SAT Subject Tests: Literature = 740, Chemistry = 770, Math 2 = 800
  - AP Tests: Calculus AB = 5, Physics 1 = 5, Physics 2 = 5, Chemistry = 4, Spanish = 5

## Work Experience

*Software Engineer, Greenbotics (Sunpower Subsidiary); Summer 2016 – Present*

- Developing proprietary mobile app large scale solar site planning

*Software Engineer Intern, University of California in Davis, Dr. Ian Korf – Summer 2015*

- Helped write a perl-based Bio-informatics (image processing) code, to analyze leaf vein patterns in order to identify a drought resistant tomato breed

## Leadership

*FIRST Robotics Team 1678, Member Since Freshman Year (2013) - Team Accomplishments*

- Team 1678 is one of over 3,000 active teams competing world-wide from 39 countries
- Spring 2014 – World Championship Finalist
- Spring 2015 – **World Championship Winner**
- Summer 2015 – Leadership team sent to Japan for private tour by DMG Mori
- Spring 2016 – World Championship Semi-finalist

*Mobile Application Programming Lead of FIRST Robotics Team 1678 – 2014, 2015 and 2016*

- Design and build software systems, currently encompassing seven projects. Manage three senior programmers and five programmers in training.

*Team Captain of FIRST Robotics Team 1678 – Fall 2016 to Present*

- Lead 80 high school students in six subdivisions (Business & Media, Electrical, Mechanical Design, Mechanical Fabrication, Robot Programming, Mobile Application Programming)
- Organize and direct leadership meetings each week. Team is run like an engineering company, with a leadership group that makes decisions and writes protocols aligned with team mission.
- Present to sponsors and solicit financial support to meet \$175,000 annual budget

## Technical Skills

- iOS Development: Swift & Objective-C, Server/Backend: Python, Firebase/Relational DBs
- Basic and Intermediate Ability/Experience: Perl, Bash, Zsh, Android Development: Java. Communications: Bluetooth & BLE. Web Development: HTML, CSS, Javascript

## Personal Interests

- Piano - 13 years of play. Memorize & improvise: Jazz, Funk, Pop, Latin, Rock, Electronic, and Classical
  - Solo and with Groups: "The Five Thirty" Rock Band, Competitive HS Jazz Band: Toured New Orleans, J-Street Jazz Cats: Won "Best Piano" at Sacramento State Jazz Festival, Contemporary/Classical Fusion Piano Duets, Pop Medley and Trap with Bassist, etc.
- Sports - Mountain Biking, Hiking, Cross Country Running, Ju-Jitsu
- Other - Tutoring, Photography, Cooking/Baking, Reading