

# Bryton Moeller

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## Profile

I'm a freshman and Environmental Engineering major at Dartmouth College. My goal is to contribute to the progress of environmental and socially oriented projects by leveraging my knowledge and skills in engineering, programming and environmental science. My core strengths are communication, analytical thinking and perseverance.

## Academics

*Dartmouth College; Hanover NH - Expected Graduation - BA: June 2021, BE: June 2022*

- Coursework: Accelerated Multivariable Calculus, Physics for Engineers, Wilderness, Culture & Environmental Conservation. GPA: 3.9
- Extracurriculars: R&D with Dartmouth Humanitarian Engineering Club, Maintaining Trails with Dartmouth Outing Club

*Davis Senior High School; Davis CA – Graduated June 2017*

- 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. GPA: 4.2

## Work Experience

*Software Engineer, Greenbotics (Sunpower Subsidiary); Summer 2016 – Winter 2017*

- Developed 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 identify a drought resistant tomato breed by analyzing leaf vein patterns

## Leadership

*Team Captain of FIRST Robotics Team 1678 – Fall 2016 to Spring 2017*

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

*Mobile Application Programming Lead of FIRST Robotics Team 1678 – Fall 2014 to Spring 2016*

- Lead design and completion of software systems, encompassing seven projects. Managed three senior programmers and five programmers in training.

*FIRST Robotics Team 1678, Fall 2013 to Spring 2017 - 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*
- Spring 2016 – World Championship Semi-finalist

## Technical Skills

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

## Personal Interests

- Piano - 14yrs: Memorize & improvise: Jazz, Funk, Pop, Latin, Rock, Electronic, and Classical
  - Experience: "The Preserves" Jam Group, "The Five Thirty" Rock Band, Competitive HS Jazz Band, Contemporary Piano Duets, Other Misc. Bands and Collaborations
- Sports - Trail Running, Mountain Biking, Hiking, Jiu-Jitsu
- Other - Photography, Cooking/Baking, Reading