BENNETTT. **DORSEY**

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**EDUCATION**

**Francis Parker School**, San Diego, CA June 2018

**Santa Clara University**, Santa Clara, CA

B.S. in Computer Engineering June 2022

**RELEVANT COURSEWORK**

**High School**: AP Computer Science • Web Programming • Robotics Programming & Data Structures

**College**: Intro to Circuit Design

**SKILLS**

*Programming Languages:* C, Java, Python, HTML, CSS, JavaScript

*Tools:* Solidworks (CSWA Certification),Git, Unix/Command Line, Excel, Visual Studio, Eclipse

**WORK EXPERIENCE**

**FIRST Robotics Team 2485, Member**  2014 - 2018

* Created a web form for collecting scouting data using HTML, JavaScript, and CSS.
* Contributed to Drive Train code by scaling input value from controller to voltage from battery to reduce brownouts.
* Used PID loops to create smooth driving during autonomous mode and keep flywheel spinning at a consistent rate while firing whiffle balls.
* Contributed to team use of Computer Vision to test for vision targets and aim robot towards it.
* Awards won by team: Innovation in Control, Industrial Design at World Championships, Engineering Inspiration x2, Excellence in Engineering

**PROJECTS**

**Calendar Automation** 2018

* Used JavaScript to auto color and sort events based on name. Adds events to a relevant google calendar in automatically organize and save time when adding events such as homework or tests to my calendar.

**LEADERSHIP EXPERIENCE**

**FIRST Robotics Team 2485, Strategy Lead** 2015-2016

* Worked to determine correct game strategy for team moving forward by analyzing previous games and weighing importance of tasks such as defense, speed, and scoring.
* Required extensive use of Microsoft Excel to organize and obtain relevant statistics such as points/minute, chance to win game, offensive power rating, and defensive power rating.

**FIRST Robotics Team 2485, Design Officer** 2016-2017

* Lead Design team by assigning components to different team members, and tracking source control to insure a unified design.
* Used Solidworks to create custom frame, gearbox, and active mechanisms
* Created coursework for all new design team members and taught new team members CAD
* Worked closely with machine shop by creating drawing files of parts that need to be made and insuring precision during build and assembly process.

**INTERESTS AND ADDITIONAL CERTIFICATION**

NAUI SCUBA Certified

Kiteboarding

Sailing – Sailed for High School and College Club Teams