



AARON BECKER

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github.com/aaroexxt



aaronbecker.tech

ABOUT

High school senior with passion for electromechanical engineering and programming challenges; excited to tackle new challenges in a college setting.

Burlingame High School, Class of 2021

Unweighted GPA 4.0 / Weighted GPA 4.21

Skyline College, College of San Mateo, Coastline College

Dual enrollment classes, Fall 2020 GPA 4.0

Accepted to MIT as part of the Class of 2025

2019-2020: Captain, Engineering, Burlingame High School FRC #5026

Responsible for robot mechanical design and training of inexperienced members in CAD design

CNC machinist; pioneered extrude machining jig + CAM for efficiency

2018-2019: Engineer, BHS FRC #5026, Captain, BHS FTC #7316

FRC "Deep Space" World Championship Winner, Houston TX

4th place Alliance Captain, Saratoga FTC Qualifier

2017-2018: Member, BHS FRC #5026, Lead Driver, BHS FTC #7316

Iron Panthers FRC team 5026: 10th Place Alliance Captain, Houston World Championships, Carver Subdivision

FTC: Winner, Saratoga (CA) and Daly City (CA) Qualifiers

Inspire Award 3rd place winner, NorCal Regional Tournament

Attended FTC Super West in Spokane, Washington

EDUCATION

ROBOTICS

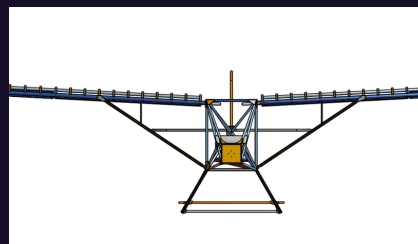
RECENT PERSONAL PROJECTS

Electric Skateboard



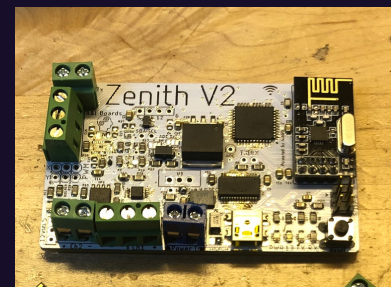
6kW
< motors
Custom artwork, PCB
control electronics

Flight Club



FAR Part 103-legal
ultralight plane designed
by high school students
flightclubaerospace.com

PCB Development



Self taught in
EagleCAD PCB; for
electric skateboard

See more projects at:
aaronbecker.tech



ATHLETICS

2018 - Present: Varsity Cross Country (fall)

Competed at the varsity level for going on three seasons in PAL league

2018-2019: JV Lacrosse (spring)

2017-2018: JV Cross Country & JV Track

2020: COVID-19 Mask Production

3-D printed and delivered over 500 PPE mask parts to local hospital (Kaiser) in COVID-19 hotspot (Santa Clara), employed system that monitors print remotely and automatically pauses print if issue is detected using a Deep Neural Network

2017-2019: Technology Tutor

Volunteered at weekly "Coding Club" program supporting local families and elementary school children at San Mateo public library. Taught all levels from Scratch to more advanced Javascript and Java

2017-2018: Board Member, Jewish Teen Foundation

Individually raised over \$3,000. Collaborated with 16 other high achieving Foundation members to donate \$65,000+ to six local and international non profits.

2019-Present: Guitar

Self-taught in guitar and created rock band "Standard Definition" with three friends, play covers from 1970s-1990s as well as original songs

2009-2019: Piano

Studied classical piano and performed in annual recitals

2018 - Present: Private Computer Coding Tutor

One hour per week teaching students how to code at levels ranging from beginner in Scratch to Python

Summer 2019: ACE Hardware Sales Employee

20 hours per week; managed cash register and inventory

2017-2018: Private Computer Building Tutor

Taught PC building basics to elementary and middle school students

COMMUNITY SERVICE

MUSIC

EMPLOYMENT

TECH SKILLS



Programming
in C, Java,
Javascript,
Python, Shell



Mechanical
Design using
Solidworks +
Simulation



Full-stack
web design,
HTML/JS/CSS
+ Node.JS



Experience with
design and BOM
selection for
advanced PCBs in
Eagle