

EDUCATION

Diablo Valley College

Electrical Engineering & Computer Science (for transfer), 4.0 GPA

PLEASANT HILL, CALIFORNIA

2017 - present

Relevant Coursework: Prog. Design, Data structures, Algorithms, MASM Assembly Prog., Circuits/Electronics, Adv. C++, Electromagnetism & Quantum Physics, Differential Equations, MATLAB, Robotics, Manufacturing

University of California, Berkeley

Concurrent Enrollment Coursework - Computer Science & Foreign Law, 3.7 GPA

BERKELEY, CALIFORNIA

2018

Hackathons: CalHacks 5.0, CruzHacks, MakeHarvard, DVCHacks — *Research:* Internet Censorship Duality in Modern Iran

Sint-Jan Berchmanscollege Brussels

Math & Sciences, Secondary Education

BRUSSELS, BELGIUM

EXPERIENCE & DEVELOPED SKILLS

NVIDIA Corporation

SANTA CLARA, CALIFORNIA

Performance Software Engineering Intern

Jun '19 – present

- Developed automation scripts & team libraries in Python, set up CI/CD & tools used in over 300 scripts
- Improved software efficiency in Python and Perl reducing automation turnaround time by 50%
- Benchmarked hardware, created reports & communicated with prototyping/marketing teams

Viking Valley Engineering

PLEASANT HILL, CALIFORNIA

Founder & Engineering Lead (www.dvcrobotics.tech)

Aug '18 – present

- Developed web interface/server software for robot control - HTML, CSS, JS, & Python, Flask, websockets
- Led a team of 15 developing an autonomous tour-guide robot, involved/mentored 50+ students
- Integrated sensors w/ Raspberry Pi & Jetson TX2 [arduino, GPS, SPI, I2C, ADC, camera feed]
- Manufactured parts [TIG welding, CAD, lathe, milling]; Secured funding [AUTODESK INC]

RoverTeam, Robotics & Engineering Club, DVC

PLEASANT HILL, CALIFORNIA

Hardware Engineering Team Member

Jan '18 – May '18

- Selected power supply, motors, and regulated voltages across onboard electronics
- CAD-Designed, performed FEA analysis, & manufactured parts for a reduced-scale mars rover

Baja SAE Racing @ DVC

PLEASANT HILL, CALIFORNIA

Founder & Project Leader

Aug '17 – May '18

- Led bi-weekly team meetings, conducted mechanical design research, CAD designed vehicle components

OTHER PROJECTS

Hackathon Projects

CruzHacks - Tech Innovation Winner

Jan '19

Developed interfacing device using IMU's to control embedded devices such as rbtic arms & drones (C++, C#, RPi, Kalman fltr.)

MakeHarvard 2.0 - Buzzworks

Feb '19

Created robot that recognizes flowers for buzz-pollination & manipulates motors in XYZ (OpenCV, Python, Stepper mtrs., RPi B+)

CalHacks 5 - Fordimizie

November '18

Developed on-board iOS Ford analytics tool for data & vehicle settings manipulation using SDL (Swift, Ford SDL, Graphs API)

HONORS/AWARDS

- Princeton Envision-Future Scholar
- Forbes Under 30 Scholar
- Finalist - AMATYC Student Research League
- 2x winner - SAE international Engineers Week Contest
- Phyllis Howe & C.I.S.E Memorial Scholar
- CruzHacks 'Tech Innovation' Winner
- Piano Masterclass Series Performer
- Laser 4.7 Sailing World Cup 2015 - Bronze finalist

COMPETENCIES & INTEREST

Robotics • C++, Python, JavaScript, Flask • Embedded Systems • Automation • CAD Design • Project Management • Leadership • MATLAB • HPC & GPU • L^AT_EX • Sailing/Windsurfing • Foreign Langs • Piano, Vocals • Composition • Solar Installation [SunWork.org] • Nutrient Consumption (I really enjoy food) • Memes & Puns

NATURAL LANGUAGES

Besides being a STEM enthusiast I love learning languages/cultures. Working in a multi-cultural space is a huge plus for me.

English (*native*) • French (*native*) • Dutch (*fluency*) • German (*fluency*) • Spanish (*fluency*) • Farsi (*beginner*)