

## 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

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## 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](http://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

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## OTHER PROJECTS

### Hackathon Projects

**CruzHacks - Tech Innovation Winner**

Jan '19

*Developed interfacing device using IMU's to control embedded devices such as robotic 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)*

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## 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

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## COMPETENCIES & INTEREST

Robotics • C++, Python, JavaScript, Flask • Embedded Systems • Automation • CAD Design • Project Management  
• Leadership • MATLAB • HPC & GPU •  $\LaTeX$  • Sailing/Windsurfing • Foreign Langs • Piano, Vocals • Composition • Solar Installation [SunWork.org] • Nutrient Consumption (I am embedded into Food) • Memes & Puns

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## 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*)