

"If the physics allow it, I will get it done."

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## Education

### Diablo Valley College

PLEASANT HILL, CALIFORNIA

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

2017 - present

*Honors/Activities:* Viking Valley Engineering (MASCOT project), RoverTeam, Math Club, AMATYC Math Modeling (Finalist), Intramural Public Speaking (Finalist), Piano Series Masterclass Performer, Phyllis Howe & C.I.S.E. Scholar

### University of California, Berkeley

BERKELEY, CALIFORNIA

#### Concurrent Enrollment - Foreign Law & Politics, 3.7 GPA

2018

- Independent research: The duality of internet censorship in modern Iran —
- CalHacks 5.0 (Fordimize)

### Sint-Jan Berchmanscollege Brussels

BRUSSELS, BELGIUM

#### Math and Sciences High School diploma (secondary education)

2013 – 2016

*Science, Mathematics & Roman languages*

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## Experience & Developed Skills

### NVIDIA Corp.

SANTA CLARA, CALIFORNIA

#### Performance Engineering Intern

Jun '19 – present

Software engineering & power performance testing of NVIDIA hardware to respond to critical prototyping needs and product details for engineering and marketing purposes.

- Improved automation software framework efficiency in Python and Perl. Suggested & led script refactoring initiatives cutting turnaround time by 50%.
- Schematic analysis for instrumentation of hardware to retrieve power data from electrical components
- Benchmarking of NVIDIA hardware and creation of reports for hardware engineering & marketing teams
- Server cluster setup and maintenance to deploy internal perflab webtools (Docker, Kubernetes, Django)

### Viking Valley Engineering

DIABLO VALLEY COLLEGE, CALIFORNIA

#### Founder & Engineering Lead

Aug '18 – present

VVE is developing a robotic campus mascot (Project MASCOT) aiming to reduce time spent by students orienting on campus, and contributing to the campus community. We've successfully created two prototypes, and have involved 40+ students. ([www.dvcrobotics.tech](http://www.dvcrobotics.tech))

- Team leader & Interactive Systems Lead: Team management, administrative challenges
- Python webapp development - HTML, CSS, JS, & Python: control interface in Python using Flask & WebSocket
- Sensor & microprocessor integration (GPS, SPI, I2C, ADC, camera feed connectivity to Raspberry Pi)
- Mechanical work - TIG welding, manual manufacturing with i.e. lathe & milling machine
- Secured funding by AUTODESK Inc.

### Robotics & Engineering - RoverTeam

PLEASANT HILL, CALIFORNIA

#### Hardware Engineering team member

Jan '18 – May '18

Robotics & Engineering at Diablo Valley College developed a reduced-scale model of the 'Curiosity' Mars Rover. Parts and software were designed and manufactured in-house.

- 3D-Designed and manufactured CAD parts for a reduced-scale model
- Performed FEA on structural members
- Selected power supply, motors, and regulated voltages across onboard electronics

### DVC Baja SAE Racing

PLEASANT HILL, CALIFORNIA

#### Founder & Project Leader

Aug '17 – May '18

Diablo Valley College Baja SAE Racing is an initiative comprising a team of students engineering an off-road vehicle to be presented at the 2019 Baja SAE Oregon intercollegiate competition. (Discontinued for liability reasons)

- Led and coordinated bi-weekly team meetings, ensuring team progress
- Mentored and guided sub-team research
- Managed administrative challenges
- CAD design of vehicle components

## SunWork Renewable Energy Projects

BERKELEY, CALIFORNIA

### Community Volunteer

Jan '18 – present

Small-scale rooftop solar panel installation non-profit work. Experience with i.e. electrical wiring, solar micro-inverter installation, & construction work.

## Fundación Hermano Policarpo

BARRANQUILLA, COLOMBIA

### Outreach Coordinator

Mar '17 – Jun '17

Fundación Hermano Policarpo is a non-profit organization supporting the education of disadvantaged young women in the city of Barranquilla, Colombia.

- Promoted and mentored in STEM subjects
- Organized funding and social outreach for the NGO.
- English-Spanish interpretation

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## Other Work Experience

### Spruce Restaurant

SAN FRANCISCO, CALIFORNIA

#### Food busser, Front house staff

Jul '17 – Dec '17

Food busser responsibilities at Michelin starred Spruce SF. An unforgettable experience.

### Hillstone Restaurant

SAN FRANCISCO, CALIFORNIA

#### Waiter, Front house staff

Jun '18 – Dec '18

Waiter & customer care at Hillstone Embarcadero, San Francisco. Developed people skills and made nice tips.

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## Other Projects

### Hackathon Projects

#### CruzHacks - Tech Innovation Winner

Jan '19

Won the 'Tech Innovation' award category during the 36-hour CruzHacks Hackathon with "the Glove", an interfacing device using multiple IMU sensors to control embedded devices such as robotic arms, and drones.

#### MakeHarvard 2.0 - Buzzworks

Feb '19

We created a robot that recognizes strawberry flowers and simulates buzz pollination by manipulating motors in all (XYZ) dimensions. It utilizes computer vision arguments on the mock strawberry flowers, with OpenCV and a python backend operating on Raspberry Pi 3 Model B.

#### CalHacks 5 - Fordimizie

November '18

An on-board analytics tool for Ford onboard monitors using SDL. The interface allows for user manipulation of vehicle data, and change of vehicle settings for driving optimization. Programmed in Swift.

### DIY Robotics

PLEASANT HILL, CALIFORNIA

#### Various Projects

2015- present

Developed maker skills:

- Built a tiny self-balancing robot (arduino nano)
- Home automation: Used ESP8266 for home lighting automation (RGB LEDS, outlet automation)
- 3D Printing - CAD design and 3D printing of many parts & home accessories.

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## Competencies & Interests

People & Project Management • Leadership • Investing & Options Trading • CAD • Python • C++ • MATLAB •  $\text{\LaTeX}$  • Robotics • Foreign Languages • Piano Bar, Advanced Piano, Violin, and Vocals (Performance) • Windsurfing • Memes and Puns • Automotive Repair • Scientific Research • Nutrient Consumption • Skill development

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## Natural languages

Besides being a STEM enthusiast, I also find a lot of joy in learning new languages and experiencing other cultures. So far, I speak five languages fluently, and I'm currently learning Farsi. Working in a multi-cultural environment or in a foreign culture is a huge plus to me.

- English (*mother tongue*)
- French (*mother tongue*)
- Dutch (*full professional fluency*)
- German (*full professional fluency*)
- Spanish (*full professional fluency*)
- Farsi (*beginner*)