

Guillaume de Cannart

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

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Education

Diablo Valley College

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

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

PLEASANT HILL, CALIFORNIA

2017 - present

University of California, Berkeley

Concurrent Enrollment - Foreign Law & Politics, 3.7 GPA

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

BERKELEY, CALIFORNIA

2018

Sint-Jan Berchmanscollege Brussels

Math and Sciences High School diploma (secondary education)

Science, Mathematics & Roman languages

BRUSSELS, BELGIUM

2013 – 2016

Experience & Developed Skills

NVIDIA Corp.

Performance Engineering Intern

Software engineering & power performance testing of NVIDIA hardware to respond to critical prototyping needs and product details for engineering and marketing purposes. Only community college intern amongst 200+ students.

- Improving automation software (Python & Perl) to increase framework efficiency. Suggested & led software 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)

SANTA CLARA, CALIFORNIA

Jun '19 – present

Viking Valley Engineering

Founder & Engineering Lead

VVE is developing a robotic campus mascot (Project MASCCOT) 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)

- 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.

DIABLO VALLEY COLLEGE, CALIFORNIA

Aug '18 – present

Robotics & Engineering - RoverTeam

Hardware Engineering team member

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

PLEASANT HILL, CALIFORNIA

Jan '18 – May '18

DVC Baja SAE Racing

Founder & Project Leader

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

PLEASANT HILL, CALIFORNIA

Aug '17 – May '18

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

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.

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.

Competencies & Interests

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

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*)