

# Guillaume de Cannart

*"If the physics allow it, I'll get it done."*

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## EDUCATION

Cornell University

ITHACA, NEW YORK

Electrical & Computer Engineering

ECE & International Relations

Diablo Valley College

PLEASANT HILL, CALIFORNIA

Mechanical & Computer Engineering (for transfer), 4.0 GPA

2017 - 2019

Data structs, Algritms, Prog Design, MASM, Circuits, C++, Electrmagtsm & Quant Physics, Diff Eq., MATLAB, Robotics

University of California, Berkeley

BERKELEY, CALIFORNIA

Concurrent Enrollment: Foreign Law & Computer Science

2018

Hackathons: CalHacks 5.0 — Research: Censorship Duality in Iran — Activities: Cal Sailing Club — Indpt Crsewrk: CS61A

Sint-Jan Berchmanscollege Brussels

BRUSSELS, BELGIUM

Math & Sciences, Secondary Education

## EXPERIENCE & DEVELOPED SKILLS

NVIDIA Corporation

SANTA CLARA, CALIFORNIA

Performance Software Engineer Intern

Jun '19 – Dec '19

- 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

Electrical Lead & Founder ([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); Raised funding through 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

Project Leader & Founder

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

- Finalist - AMATYC Math Research League
- Princeton Envision-Future Scholar
- Forbes Under 30 Scholar
- 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<sup>A</sup>T<sub>E</sub>X • Sailing/Windsurfing • Foreign Languages • Piano & Vocals •  
Composition • Solar Installation ([sunwork.org](http://sunwork.org)) • Nutrient Consumption (I really enjoy food) • Memes & Puns

## NATURAL LANGUAGES

Besides being a STEM enthusiast I love exploring new places. Working in a multi-cultural space is a huge plus for me.

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