

# Guillaume de Cannart

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

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## EDUCATION

### Cornell University

Electrical & Computer Engineering (ECE)

B.S. - ECE & International Relations

ITHACA, NEW YORK

2020 - Present

### Diablo Valley College

Electrical Engineering & Computer Science, 4.0 GPA

Data structures, Circuits, Algorithms, Electromagnetism & Quant Physics, Differential Equations, MATLAB, Robotics

PLEASANT HILL, CALIFORNIA

2017 - 2019

### Sint-Jan Berchmanscollege Brussels

Math & Sciences, Secondary Education

BRUSSELS, BELGIUM

## EXPERIENCE & DEVELOPED SKILLS

### Tesla Inc.

Incoming Sensors Integration Engineer Intern

- Starting June 2021

PALO ALTO, CALIFORNIA

Jun '21 - Aug '21

### NVIDIA Corporation

Performance Software Engineer Co-op

- Wrote automation software & team libraries in Python, set up CI/CD & tools used in over 300 scripts
- Enhanced software efficiency in Python/Perl through re-writes, reducing automation turnaround time by 50%
- Set up benchmark routines, created reports, collaborated with prototyping/marketing teams

SANTA CLARA, CALIFORNIA

Jun '19 - Dec '19

### Viking Valley Engineering

Electrical Lead & Founder ([www.dvcrobotics.tech](http://www.dvcrobotics.tech))

- Led a team of 15 developing an autonomous tour-guide robot, involved/mentored 50+ students
- Developed web interface/server software for robot control - HTML, CSS, JS, & Python, Flask, websockets
- 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.

PLEASANT HILL, CALIFORNIA

Aug '18 - present

### RoverTeam, Robotics & Engineering Club, DVC

Electronics/Hardware Team Member

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

PLEASANT HILL, CALIFORNIA

Jan '18 - May '18

### Baja SAE Racing @ DVC

Project Leader & Founder

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

PLEASANT HILL, CALIFORNIA

Aug '17 - May '18

## OTHER PROJECTS

### Hackathon Projects

CruzHacks - Tech Innovation Winner

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

Jan '19

MakeHarvard 2.0 - Buzzworks

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

Feb '19

CalHacks 5 - Fordimizie

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

November '18

## 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

Embedded Systems • C++, Python, JavaScript, Flask • Robotics • Automation • CAD Design • Project Management  
• Leadership • MATLAB • HPC & GPU stuff •  $\LaTeX$  • 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*)