Guillaume de Cannart

"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*

Relevant Coursework: Data structures, Algorithms, Program Design, MASM Assembly, Circuits/Electronics, Adv. C++, Electromagnetism & Quantum Physics, Differential Equations, MATLAB, Robotics, Manufacturing

University of California, Berkeley — **Berkeley, California**

Concurrent Enrollment Coursework - Computer Science & Foreign Law — *2018*

Hackathons: CalHacks 5.0, CruzHacks, MakeHarvard — Research: Internet Censorship Duality in Iran

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**

Engineering Lead & Founder (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 • LaTeX • Sailing/Windsurfing • Foreign Languages • Piano & Vocals • Composition • Solar Installation (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*)