Guillaume de Cannart

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

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EDUCATION

Cornell University — **Ithaca, New York**
B.S. Electrical & Computer Engineering (ECE) — *2020 - Present*
Activities/Interests: Entrepreneurship, Cornell Music Production, Product Management

Diablo Valley College — **Pleasant Hill, California**
Electrical Engineering & Computer Science, *4.0 GPA* — *2017 - 2019*
Data structures, Circuits, Algorithms, Electromagnetism & Quant Physics, Differential Equations, MATLAB, Robotics

Sint-Jan Berchmanscollege Brussels — **Brussels, Belgium**
Math & Sciences, Secondary Education

EXPERIENCE & DEVELOPED SKILLS

Tesla Inc. — **Palo Alto, California**
Incoming Sensors Integration Intern — *Jun '21 - Aug '21*
- Starting June 2021

NVIDIA Corporation — **Santa Clara, California**
Performance Software Engineering Intern — *Jun '19 – Dec '19*
- 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

Viking Valley Engineering — **Pleasant Hill, California**
Founder & Software/Electrical Lead (www.dvcrobotics.tech) — *Aug '18 – present*
- 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.

RoverTeam, Robotics & Engineering Club, DVC — **Pleasant Hill, California**
Electronics 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**
Founder & Project Leader — *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

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) • 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*)