

Derek Goss

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(919) 923-0553

EDUCATION

Cornell University • Ithaca, NY

Aug 2018 – May 2022

Engineering Physics — School of Engineering

Harriton High School • Rosemont, PA

June 2018

International Baccalaureate Diploma — 4.98 GPA

EXPERIENCE

Cornell Racing (Formula SAE)

Ithaca, NY

Engineering Project Team

Oct 2018 – present

Cornell Racing designs, manufactures, tests, and races a formula-style race car for official FSAE competitions. For the 2018–2019 season, we will create our first fully electric car.

- Trained in machine shop, TIG welding, CAD, rapid prototyping, basic composites manufacturing, and driving
- Anticipating responsibilities for accumulator packaging and design, ergonomics, and carbon fiber monocoque

Synchro — synchrostopwatch.com

Haverford, PA

Personal Project

Aug 2017 – June 2018

Developed advanced stopwatch & logging app used in 10+ countries and by NCAA teams.

- Built iOS app, integrated cloud analytics, launched on the App Store, engaged in personal marketing, and facilitated press relations

Project Cognoma — University of Pennsylvania Greene Lab

Philadelphia, PA

Project Manager & Software Engineering Intern

June – Aug 2017

Directed development and launch of Project Cognoma, a free online machine learning platform for cancer researchers analyzing correlations between gene-specific mutations and cancerous conditions.

- Designed and built user interfaces, cloud-based web services, and distributed machine learning data pipelines
- Orchestrated contributions from cancer biologists, data scientists, designers, and open source volunteers

Pickle — getpickleapp.com

Haverford, PA

Personal Project

2014 – present

Built a multimedia social network designed for polling friends. (for when you're "in a pickle"!)

- Iterated several iOS and React Native apps, constructed scalable cloud deployment, designed branding material

COMMUNITY

Harriton Solar Research

Sept 2016 – Feb 2018

Authored a comprehensive research paper analyzing a theoretical solar installation atop the roof of my high school.

- Integrated geospatial mapping, weather modeling tools, mathematical computation, and personal interviews with district officials
- Received the highest grade level from the IBO for an IB extended essay; paper kept as an exemplar for students

Leukemia and Lymphoma Society Students of the Year

Jan – Feb 2017

Fundraised \$23,000 with a team of friends and placed 1st in Pennsylvania regional competition.

- Directed communications and led as head chef for a major fundraiser dinner

INVOLVEMENT

• Cornell Triathlon Club

2018 – present

• Harriton HS Cross Country & Track — Varsity Team Captain

2014 – 2018

FOCUS

Physical Engineering • Sustainability • App & Web Development • Project Management • Marketing & Design