

Derek Goss

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(919) 923-0553

EDUCATION

Cornell University • Ithaca, NY

Aug 2018 – May 2022

Bachelor of Science, Engineering Physics — College of Engineering • GPA pending

Harriton High School • Rosemont, PA

June 2018

International Baccalaureate Diploma • 4.98/5 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. The team is creating its first fully electric vehicle for the 2018–2019 season.

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

Synchro — synchrostopwatch.com

Haverford, PA

Personal Project

Aug 2017 – June 2018

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

- Built full iOS app integrated with cloud analytics
- Launched on the Apple App Store in June 2018; featured on LetsRun.com

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 research. The system analyzes 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

Created 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

RESEARCH

Solar Energy at Harriton High School

Sept 2016 – Feb 2018

Authored a comprehensive IB Extended Essay proposing and analyzing a theoretical solar installation on Harriton's roof.

- Integrated geospatial mapping, weather modeling tools, mathematical computation, and personal interviews with Lower Merion Township officials
- Awarded the highest grade level from the International Baccalaureate Organization
- Paper kept by Harriton as an exemplar for future IB 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 major fundraiser dinner

INVOLVEMENT

• Cornell Triathlon Club

2018 – present

• Harriton HS Cross Country & Track — Varsity Team Captain

2014 – 2018

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