

Derek Goss

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derekgoss.com

(919) 923-0553

EDUCATION

Cornell University, College of Engineering • Ithaca, NY
Bachelor of Science, Engineering Physics — 3.629 GPA, Dean's List

Aug 2018 – May 2022 Expected

Harriton High School • Rosemont, PA
International Baccalaureate Diploma — 4.98/5 GPA

June 2018

EXPERIENCE

Cornell Racing (Formula SAE)

Ithaca, NY

Project Team Member

Oct 2018 – present

Contributes to designing, manufacturing, and racing 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

Founder and Developer

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 and 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

Solar Energy at Harriton High School

Rosemont, PA

Author, IB Extended Essay

Sept 2016 – Feb 2018

Wrote a comprehensive report performing a cost-benefit analysis of installing solar panels 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

Pickle — getpickleapp.com

Haverford, PA

Founder and Developer

2014 – 2017

Built a multimedia social network designed to help make decisions (when you're "in a pickle")

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

INVOLVEMENT

- Cornell Triathlon Club 2018 – present
- Leukemia and Lymphoma Society Students of the Year Jan – Feb 2017
 - Key member of team that raised \$23,000 for the LLS and placed 1st in Pennsylvania Regional Competition
 - Served as Communications Director and Head Chef for the Fundraiser Dinner
- Harriton HS Cross Country and Track Teams — Varsity Team Captain, 4-year letterman 2014 – 2018

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