

# Derek Goss

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derekgoss.com

(919) 923-0553

## EDUCATION

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**Cornell University, College of Engineering** • Ithaca, NY

Aug 2018 – May 2022 Expected

Bachelor of Science, Engineering Physics — GPA pending

**Harriton High School** • Rosemont, PA

June 2018

International Baccalaureate Diploma — 4.98/5 GPA

## EXPERIENCE

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**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](http://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](http://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

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• 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

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