

# Derek Goss

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derekgoss.com

(919) 923-0553

## EDUCATION

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**Cornell University** • Ithaca, NY

Aug 2018 – May 2022

Engineering Physics — School of Engineering • GPA pending

**Harrington High School** • Rosemont, PA

June 2018

International Baccalaureate Diploma • 4.98 GPA

## EXPERIENCE

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**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, the team is creating its first fully electric vehicle.

- 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

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

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**Harrington 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

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• Cornell Triathlon Club

2018 – present

• Harrington HS Cross Country & Track — Varsity Team Captain

2014 – 2018

## FOCUS

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