Derek Goss

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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**
Project Team Member   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**
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 & 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   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

Pickle — getpickleapp.com   **Haverford, PA**
Founder & Developer   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

INVOLVEMENT

- Cornell Triathlon Club   2018 – present
- 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
- Harriton HS Cross Country & Track — Varsity Team Captain   2014 – 2018

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