

# Derek Goss

derekgoss.com

## EDUCATION

**Cornell University** · Ithaca, NY

Engineering Physics, College of Engineering 2022

**Harriton High School** · Rosemont, PA

International Baccalaureate Diploma, 4.98/5 GPA

## CONTACT

dcgoss14@gmail.com

(919) 923-0553

5542 High Rise 5  
Ithaca, NY, 14853

## EXPERIENCE

### Cornell Racing (Formula SAE)

#### *Project Team Member*

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
- Anticipating responsibilities in electric accumulator design, ergonomics, and carbon fiber monocoque manufacturing

### Synchro — synchrostopwatch.com

#### *Founder and Developer*

Built for athletes and coaches, Synchro is the first advanced stopwatch and logging app designed for the digital era. Used in 10+ countries and by NCAA teams.

- Built full iOS app integrated with cloud analytics
- Launched on the App Store in June 2018
- Marketed and managed press relations
- Featured on LetsRun.com

### Project Cognoma

#### University of Pennsylvania Greene Lab

#### *Project Manager & Software Engineering Intern*

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 programmed web user interfaces, cloud web deployments, and distributed machine learning data pipelines
- Orchestrated and integrated contributions from cancer biologists, data scientists, designers, and open source volunteers
- Led presentations on the project and its technology at local tech community meetups

### Pickle — getpickleapp.com

#### *Founder & Developer*

Pickle is a multimedia social network designed to help you make decisions when you are "in a pickle"!

- Iterated several iOS and React native apps
- Constructed scalable cloud deployment
- Designed branding material

## RESEARCH

### Solar Panels on Harriton High School

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
- Kept by Harriton as an exemplar for IB students

## INVOLVEMENT

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

## INTERESTS

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