

# Izy Engel

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Inquisitive and driven computer engineering student seeking fall 2021 full-time employment with interest and experience in machine learning, system integration, and computer vision. Revolutionizing concussion management.

## Education

Stevens Institute of Technology, Hoboken, NJ

May 2021

Bachelor of Engineering in Computer Engineering

**Honors & Awards:** Tau Beta Pi, IEEE-HKN, Pinnacle Honors Scholar, NCWIT Collegiate Award Finalist

**GPA:** 3.96 cumulative

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## Coursework

**Graduate:** Applied ML, Real-Time and Embedded Systems, Computer Architecture, Data Structures and Algorithms

**Undergraduate:** Image Processing, Digital Systems Design, Information Systems, President's Leadership Seminar

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## Relevant Skills

**Languages:** C++, Python, C, ARM/MIPS Assembler, Bash, React Native/Javascript, Java, C#, Swift, HTML, Go

**Tools:** TensorFlow, OpenCV, Docker, scikit-learn, ROS, Caffe, AWS, Jenkins, Unity Engine, Excel, MATLAB

**Hardware:** Arduino, Raspberry Pi, NVIDIA Jetson Nano, soldering

**Other skills:** Public speaking, project management, entrepreneurship, writing

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## Technology Work Experience

Founder, [Livelog](#)

March 2019-Present

- Lead team of three to build all-in-one concussion management tool which leverages deep learning with OpenCV and TensorFlow to screen concussion patients for vision abnormalities
- Developed a website and mobile application using customer interviews to build out customer base and ensure the product matches customer needs

Automotive Solutions Division Intern, Intel IOTG

June-August 2019

- Collaborated with a systems engineering team to analyze and benchmark object recognition workloads using Tensorflow, Caffe, OpenVINO and various Intel hardware configurations resulting in optimal runtimes
- Spearheaded the automation of the benchmarking process using Docker containers and a Jenkins server resulting in a drastic reduction of required engineering time and more reliable test results

Student Lab Assistant, Advanced Manufacturing and Software Security Lab

September 2018-May 2019

- Configured and benchmarked new Ubuntu server using C++ scripts to test memory allocation speed; resulting in an operational server with optimal RAM configuration
- Integrated Travis CI with GitHub Classroom, using Docker, resulting in automated testing of assembly code

Student Intern, SRI International

Summers 2017 and 2018

- Programmed path planning software with Robot Operating System in Gazebo Robotics Simulator achieving efficient obstacle avoidance in simulation
  - Debugged a Segway RMP robot through researching hardware specifications, troubleshooting circuitry, and combining three different public GitHub repositories, resulting in a functioning robot
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## Leadership

President/VP, IEEE Student Branch,

2018-Present

- Lead a team of five executive board members and subcommittees to plan, budget, and run weekly meetings and semesterly hackathons resulting in technical, professional, and personal growth for over 20 members

Member, Diversity and Inclusion Committee,

2020-Present

- Collaborated with a remote team to plan events and created social media graphics using Canva to advocate for campus community safety, raise \$10,000 for community organizations, and educate the student body

First Place STEM Talk, #LEADLIKEAGIRL Conference

2017

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## Activities and General Work Experience

Club Climbing Team; Webadmin, HKN Honor Society; ECE Department Student Advisory Committee; Varsity Field Hockey; Pinnacle Scholar Peer Advisor; Dog Walker, Rover; Peer Tutor, Stevens Academic Support Center