

Jacob Platin

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EDUCATION AND SKILLS

University of Pennsylvania, School of Engineering and Applied Science
*Master of Science in Engineering in **Robotics** (Computer Vision Specialty), GPA 3.7/4.0*

Philadelphia, PA
Aug 2017 – May 2022

- **Relevant Coursework:** Machine Learning, Network System Design, Computer Vision, Deep Learning

University of Pennsylvania, School of Engineering and Applied Science
*Bachelor of Science in Engineering, Majors in **Computer Science** & **Economics**, GPA 3.5/4.0*

Philadelphia, PA
Aug 2017 - May 2022

- **Relevant Coursework:** Cloud Computing/Scalability, Econometrics, Game Theory, Data Structures, Software Design
- **Relevant Languages:** Python (strongest), C++/C/C#, Java, R, SQL, Bash
- **Skills and Frameworks:** PyTorch, AWS (Compute + ES), Jenkins, Kubernetes, GCP, Express, CSS, Angular, Rails, Git
- **Areas of Interest:** Reliable neural networks, automation, testing, full-stack integration, cloud computing, infrastructure

ETH Zurich, Departments of Computer Science and Economics
Exchange Program, GPA 3.75/4.0

Zurich, Switzerland
Sep 2019 - Dec 2019

- **Relevant Coursework:** Computer Architecture, Reliable Artificial Intelligence, Wireless/Mobile Computing

EXPERIENCE

Microsoft | **Software Engineer** | **Seattle, WA**

August 2022 - Present

- Working on developing a distributed deep learning framework for the training of large speech models

Unity Technologies | **Software Engineer Intern (Robotics)** | **Seattle, WA**

May 2021 - August 2021

- Utilized linear algebra and robotics techniques to integrate inverse kinematics directly into Unity
- Implemented joint controllers to model realistic robotic behavior
- Engineered a VR experience to capture a robot's workspace in Unity

NVIDIA | **Software Engineer Intern** | **Redmond, WA**

February 2021 - May 2021

- Developed a cloud-based searching solution for game meta-data using Elasticsearch, GraphQL and AWS
- Spearheaded project architecture and implementation, in addition to documentation
- Created novel, scalable searching algorithms

Unity Technologies | **Software Engineer Intern (AI)** | **Seattle, WA**

May 2020 - August 2020

- Explored and implemented classical and machine-learning driven robotic manipulation in the Unity engine
- Integrated motion planning and inverse kinematics for robotic arms (e.g. UR3) into Unity
- Tested and integrated a more efficient bridge between ROS and Unity

Aidoc | **Cloud Computing Intern** | **Tel Aviv, Israel**

June 2019 - August 2019

- Deployed medical (including pulmonary embolism and intracranial hemorrhage) prediction algorithms and data selection tools on AWS EC2 instances with a robust EFS and EBS storage solution using Python
- Participated in weekly discussions on state-of-the-art medical deep-learning algorithms and used Keras to test the feasibility of these developments on Aidoc's current prediction algorithms

PROJECTS AND TECHNICAL LEADERSHIP

Wharton Undergraduate Aerospace Club | **Co-Founder**

October 2020 – May 2021

- Co-founded Wharton's first aerospace club focused on applying business principles to aerospace creatively.

CAS-NN (Commercial Air Safety – Neural Network) | **Lead**

June 2019 – February 2020

- Currently developing a robust neural network to detect maintenance anomalies in commercial aircraft
- Anomalies include metal fatigue and fuse-pin misalignment, and adversarial defense techniques are used.

Penn Aerospace Club | **Co-Head**

August 2017 – December 2021

- Spearhead Penn's 100-person aerospace club, including overseeing rocketry, ballooning, and aircraft
- Enabled our teams to travel to the 3 national competitions and complete over 10 progressive launches

DATF (Domestic Autos Time Series Forecast) | **Author**

January 2019 – December 2019

- Currently undertaking advanced economic time series forecasting using R as part of Penn Economics

OTHER LEADERSHIP

Phi Kappa Psi | **President**

November 2019 – May 2020

- Leading the Iota chapter at Penn, which has over 70 members and partakes in a variety of community events