Max Uvarov

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Education

University of Illinois Urbana Champaign August 2024 – May 2028

Bachelor of Science in Computer Engineering
AIM HIGH and Illinois Engineering Achievement merit scholarships recipient
GPA: 4.0
***Coursework**: Intro. to Electronics, Computer Systems & Programming, Intro. to Python, Quantum & Thermal Physics, Differential Equations, Linear Algebra, Discrete Math*

Experience

Undergraduate Research Assistant May 2025 – Present

Multimodality Imaging Laboratory *Champaign, IL*

- 3-D modeled and printed several parts for a thermoacoustic imaging system using Solidworks and Onshape
- Ran imaging tests with an RF emitter and ultrasound transducer on agar phantom using MATLAB
- Designed and constructed a Faraday cage, imaging platform, and acrylic water tank
- Currently researching FFT deconvolution algorithms and printed circuit board design

Engineering Student Admissions Representative May 2025 – August 2025

Illinois Grainger College of Engineering *Champaign, IL*

- Led engaging campus tours for prospective engineering students and families, highlighting academic programs, research opportunities, and student life
- Demonstrated strong leadership and public speaking skills during virtual tours and miscellaneous events

Teaching Assistant August 2023 – May 2024

Barrington High School Mathematics *Barrington, IL*

- Planned and delivered lectures to a class of 25 students, ensuring clarity of mathematical concepts and reinforcing lesson objectives
- Provided personalized instruction and support, answering student questions and offering one-on-one help to clarify complex concepts, often to catch up students who had missed a day of class previously
- Learned and adapted to students' unique learning styles and preferences

Projects

FormFit | *Flutter, PyTorch, Arduino, Git, Solidworks, Onshape* September 2024 – Present

- Programmed a mobile app using Flutter with Bluetooth integration and real-time data visualization
- 3-D modeled/assembled an Arduino-controlled wearable device sending 2Mbps of accelerometer data via Bluetooth
- Calibrated FormFit using real-world exercise data; presented to 30k+ Engineering Open House attendees
- Future Plans: improving calibration using PyTorch for ML and adding FitBit/Apple Watch integration

Engineers Without Borders Rwanda Water Pipeline Project August 2024 – Present

- Leading a team of 40+ engineering students to design and implement a water pipleline for a community of 3,000
- Using AutoCAD to 2-D model a spring catchment system in compliance with EWB-USA and local guidelines
- Helped organize fundraisers that raised $15,000 in the 2024-2025 school year

Technical Skills

Languages: Python, C/C++, Dart, MATLAB
Tools/Frameworks: Git, PyTorch, Flutter, Arduino, Bluetooth
Software: SolidWorks, AutoCAD, Onshape, Excel