# 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, React Native* 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
- Current Plans: improving calibration using PyTorch for ML, adding FitBit/Apple Watch integration, and migrating to React Native/JavaScript as our mobile app framework

**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