

Thomas Askharoun

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EXPERIENCE

PENN STATE | UNDERGRADUATE RESEARCHER

Aug 2025 – Present | State College, PA

- Researching and developing novel AI-VR/AR integration systems under Prof. Bin Li.

IDEAL SEMICONDUCTOR | SEMICONDUCTOR DEVICE TEST OPERATOR

Feb 2025 – Aug 2025 | Bethlehem, PA

- Operated and maintained high-precision MPI TS3000-HP and TS3500-HP probe stations using SENTIO® software for advanced wafer testing.
- Collaborated with senior test engineers and PhD researchers to execute electrical tests on semiconductors using custom-designed probe cards.
- Gained practical semiconductor knowledge through direct lab involvement, test data collection, and hands-on alignment procedures.

NEW YORK TECH | SPECTRUM SIZZLE WORKSHOP

Summer 2025 | Long Island, NY

- Selected as 1 of 40 students to attend this workshop.
- The workshop covered: Spectrum policy, Passive systems and their Applications, Communication system design, Microwave circuit design, and Radar system technology.

WEBACY & EXTERN | BLOCKCHAIN AND WEB3 SECURITY RESEARCH EXTERN

Apr 2024 - Jun 2024 | Remote

- Researched vulnerabilities in Web3 ecosystems, focusing on wallet security and smart contract exploits.
- Delivered technical findings and risk assessments to industry mentors through collaborative reports and presentations.

SIX FLAGS | EMERGENCY DISPATCHER

Feb 2024 - Aug 2025 | Allentown, PA

- Coordinated emergency response communications using Avtec dispatch software under high-stress conditions.
- Maintained clear, rapid decision-making to support safety operations.

PROJECTS

NASA | L'SPACE NPWEE (COMPETITION WINNER)

Jan 2024 – May 2025 | Remote

- Secured \$10,000 seed funding by developing a space logistics optimization algorithm with a group of 7 students.
- Multi-university collaboration under NDA with MIT, Rice, and Georgia Tech Subject Matter Experts.

TONE-CONTROL & KARAOKE AUDIO AMPLIFIER

Spring 2025

- Multisim design of five-stage op-amp circuit with Baxandall tone control.
- Breadboard prototyping, PCB soldering, and performance reporting.

EDUCATION

PENN STATE UNIVERSITY

BACHELOR OF SCIENCE IN

ELECTRICAL ENGINEERING

State College, PA | Expected May 2027

Cumulative GPA: 3.6 / 4.0

SKILLS

TECHNOLOGY

NI Multisim • MPI's SENTIO® Software

• Github • Windows • MAC • Artificial Intelligence • Automation • Microsoft Office 365 • Fusion 360

PROGRAMMING

3+ years:

HTML • CSS

1+ years:

Python • MATLAB

COURSEWORK

UNDERGRADUATE

Circuits and Devices

Digital Design

Calculus I-IV

Java & Unix Prog. in C

Electronic Circuit Design I

Introduction to Probability

SOCIETIES / CLUBS

Tri-Alpha (Induction: Spring 2025)

Orthodox Christian Fellowship (Vice

President: 2023-2025)

STEM Club (Member since 2023)

AWARDS / CERTS


Wharton Trustee Scholarship RCPT

Bill & D. Spence Impact Scholarship RCPT


Visa Upskill Tech Pathway 

AT&T 2024 Technology Academy 

Codecademy HTML Cert. 

Codecademy CSS Cert. 

Codecademy Cloud Computing Cert. 

Codecademy Generative AI Cert. 

LINKS

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