

# Isaiah Boktor

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## EDUCATION

### Georgia Institute of Technology (GT), Atlanta, GA

BS in Mechanical Engineering with a Concentration in Micro/Nano Technology

May 2027

- **Relevant Coursework:** Nanoscale Devices Design & Manufacture, Heat Transfer, Quantum Mechanics, Creative Decisions and Design, Computing for Engineers

## WORK EXPERIENCE

### Leadec, Mechanical Engineering Intern, Birmingham, AL

May 2025 – August 2025

- Developed 12 project proposals from Customer RFQs, winning \$7M of client purchase orders in 8 weeks.
- Authored & rendered 15+ dynamic Navisworks simulations giving plant leadership a “digital dry run” that eliminated 100+ hours of labor rework and assisted in customer acquisition by winning bids with visuals.
- Constructed 4 full Automotive Conveyor Systems from paper drawings to 3D models utilizing Inventor.
- Automated a comprehensive PM Excel file to track project finances, saving sales engineers 20 hours per week.

### UPS Corporate, Product Development Engineering Intern, Doraville, GA

May 2024 – August 2024

- Updated 500+ Linux based device configuration files across the UPS Network, improving operational efficiency by 42%.
- Leveraged Power BI to create interactive dashboards to assist corporate and field engineers diagnose flow problems, reducing data processing and diagnostic time by 40%.
- Assisted in mechanical integration of 24 warehouse parcel camera tunnels, achieving 100% compliance with UPS KPIs.

## ACADEMIC PROJECTS

### Computational Quantum Mechanics Research, Georgia Institute of Technology, Atlanta, GA

October 2025 – December 2025

- Built a MATLAB TDSE simulation framework to model 3D quantum wave-packet evolution, including tunneling and quantization effects across varied potentials/boundary conditions.
- Created real-time 3D visualizations/animations with probability-density tracking and normalization, achieving ~100 FPS performance for wave-location prediction.

### Carbon Nanomaterials Research, Georgia Institute of Technology, Atlanta, GA

September 2025 – December 2025

- Authored a 17-page technical literature review (19 sources) on CNT/graphene-reinforced polymer scaffolds for osteochondral repair.
- Converted findings into design guidance linking fabrication + dispersion/percolation to conductivity, sensing/impedance response, and stiffness; highlighted key translation risks.

### Fire Tornado, Georgia Institute of Technology, Atlanta, GA

August 2025 – December 2025

- Designed an adjustable fire-whirl enclosure; modeled a non-monotonic gap-ratio response and validated experimentally to identify an optimal gap setting.
- Wrote a Python data/visualization pipeline (NumPy/Pandas/Matplotlib) to convert raw time-series measurements into fitted performance curves and MP4 animations, quantifying the optimal gap setting from experimental data.

### ME2110 Design Project, Georgia Institute of Technology, Atlanta, GA

September 2024 – December 2024

- Ranked Top 10 on competition day.
- Designed, built, and programmed an autonomous robotic system to complete tasks in a 40-second head-to-head competition, optimizing mechatronic design and system efficiency.
- Led a SolidWorks redesign; delivered a manufacturable revision with 25% weight reduction, improving energy efficiency
- Iterated 10+ prototypes, improving precision and functionality based on performance data.

### AutoSpotter, Walton Highschool STEM Academy, Marietta, GA

August 2022 – May 2023

- Engineered a mechanized spotting system to enhance home workout safety, preventing potential injuries from overexertion.
- Conducted finite element analysis (FEA) in SolidWorks, reducing material stress points by 30%.
- Surveyed user feedback and leveraged quantitative analysis to ensure a viable solution to a novel problem.

## LEADERSHIP

### Founder & CEO, KPNITAPSTLC Podcast

March 2022 – Present

- Produced and hosted 150+ podcast episodes with 750,000+ views and over 2 million impressions.
- Formulated content strategy and branding, growing audience engagement by over 300% in 2024.

### Executive Vice President, Orthodox Christian Campus Ministries (GT)

May 2025 – Present

- Created automated tracking systems and websites using Google Apps Script, Python, and HTML for all types of events and member relations across the Southern United States.
- Managed Committee Operations across the Southern United States in both Outreach and Community Service
- Planned 4 Leadership Training Summit for 120+ participants across the Southern U.S.
- Organized a service event for 300+ special needs children, recruiting and managing volunteers.

## SKILLS

**Software & Tools:** SolidWorks, NavisWorks, AutoCAD Mechanical, Inventor, MATLAB, Python, PowerBI

**Technical:** Machining (CNC, 3D Printing), Finite Element Analysis (FEA), Rapid Prototyping, Tolerance Analysis

**Concepts:** Optimization, Engineering Design, Manufacturing, Mechatronics, Structural Analysis, Dynamics, Robotics

**Soft Skills:** Public Speaking, Leadership, Project Management, Data Visualization, Technical Reporting

**Certifications:** OSHA30, Power BI Data Analyst Professional