Luka Anoshenko

Junior | University Entrepreneurship & Innovation Scholar

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Education

The Ohio State University – Columbus, Ohio Aug 2023 – May 2027
Bachelor of Science in Mechanical Engineering

Relevant Coursework: Fluid Mechanics, Thermodynamics, Machine Elements, System Dynamics & Vibrations, System Integration & Control, Electric Circuits, Dynamics

Skills

Manufacturing & Fabrication: Manual milling, lathe operations, 3D printing, precision metrology (calipers, micrometers, dial indicators), tolerance control (±0.001 in)
Engineering & Design: SolidWorks, Fusion 360, AutoCAD, Finite Element Analysis (FEA), Excel
Programming Languages: MATLAB, C++, Python

Work Experience

MAE Shop Instructional Assistant – Ohio State, Columbus, Ohio Aug 2025 – Present

- Train ~80 engineering students per semester in safe operation of manual mills, lathes, and precision measurement tools
- Guide students through machining setup, fixturing, drilling, milling, and tolerance verification
- Ensure student-manufactured components meet precision tolerances within ±0.001 in
- Assist students in fabricating of functional mechanical components from raw stock while reinforcing manufacturing best practices and safety standards

Senior Laborer – Chicago Park District, Chicago, Illinois May 2024 – Aug 2025, Summers

- Supervised and coordinated a team of 6 workers to complete weekly maintenance across ~20 parks
- Operated heavy machinery (tractors, lawn mowers, rough terrain vehicles) to maintain park grounds
- Organized daily work plans and delegated tasks to ensure projects were completed efficiently and on schedule

Student Assistant – Ohio State Dining Services, Columbus, Ohio Feb 2024 – Apr 2024

- Operated commercial equipment while maintaining strict safety and sanitation standards
- Worked in a high-volume, fast paced team environment, coordinating with coworkers to complete 400–600 daily food orders
- Developed strong time management, teamwork, and communication skills under time-sensitive conditions

Projects

Autonomous Threat Detection Rover Jan 2025 – Apr 2025

- Designed and built an AI-enabled mobile rover using Arduino/C++ control and Python/OpenCV computer vision
- Integrated hardware systems including ESP32 camera, ultrasonic sensors, servo-actuated laser turret, and Wi-Fi communication
- Developed software pipeline for real-time human detection and autonomous targeting
- Created 3D CAD models and technical drawings for rover components to support fabrication and assembly

Activities & Honors

- American Society of Mechanical Engineers (ASME) Aug 2025 – Present
- Maximus Scholarship – awarded to top 3% of incoming class