Edward Platonov

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EDUCATION

Stevens Institute of Technology   Hoboken, NJ
Bachelor of Mechanical Engineering, GPA: 3.73   Aug 2021 - May 2025
Master of Robotics Engineering   Aug 2024 - May 2026
Awards/Achievements
Dean's List, President's List, Edwin A Stevens Scholarship
Varsity NCAA Swimmer: 4x Conference Champion, Rookie of the Year, Swimmer of the Year,
Conference Scholar-Athlete of the Year, Team MVP (2021-2025)

SKILLS SUMMARY

- **Technical:**   SolidWorks, Creo, AutoCAD, MATLAB, C++, Python, Arduino
- **Tools:**   Visual Studio Code, Revit, Trace3D, BlueBeam, CHVAC, Excel
- **Topics:**   Robotics, Mechatronics, Machine Learning, FEA, Fluid Dynamics, Systems & Mechanical Design
- **Soft Skills:**   Technical communication, project management, analytical problem solving, resourcefulness, adaptability, insatiable curiosity

WORK EXPERIENCE

Project Engineer   May 2025 - Present
SedMed | Woodbridge, CT

- Design and prototype patent-pending components for assistive toilet lifts, enhancing hygiene, accessibility, and ease of maintenance in healthcare environments.
- Develop Bluetooth tracking devices enabling hospital researchers to analyze assisted sit/stand activity.
- Support SolidWorks modeling and R&D efforts with engineering, manufacturing, and clinical teams throughout product development to improve mechanical design and reliability.
- Conduct user testing with nurses and patients to improve functionality, ergonomics, and cleaning efficiency.
- Mentor a UConn senior design team sponsored by SedMed through concept development and prototyping.

Project Engineer Intern   May 2024 - Aug 2024
P&A Consulting Engineers | New York, NY

- Contributed to 20+ mechanical design projects for NYC commercial and residential buildings, assisting with system layouts, load calculations, and construction documentation under senior engineer mentorship.
- Independently managed 5 projects from survey through final design documentation, delivering mechanical design packages meeting client and code requirements.
- Developed a custom Excel-based ventilation calculator tool, automating code lookup to improve workflow efficiency and design accuracy across the engineering team.
- Supported on-site commissioning of mechanical systems at Rockefeller Center, assisting with testing, measurement setup, and operational verification.

Mechanical Engineer Intern   May 2023 - Aug 2023
TRUMPF | Farmington, CT

- Designed 20+ custom 3D-modeled components and subassemblies in SolidWorks for large-scale smart factory automation (Tesla, Boeing, John Deere), focusing on sheet metal, integration, and creative engineering.
- Engineered 5+ design solutions resolving on-site installation challenges, improving system safety, accessibility, and mechanical compatibility.
- Performed kinematic and hydraulic analysis to optimize mechanical integration and functional performance.
- Authored technical documentation in TRUMPF's design database, ensuring traceability, revision control, and engineering compliance.

PROJECTS

Smart Articulated Robotic Inspection System | LINK

- Led design and integration of a robotic inspection system combining DOBOT robotic arm, POP 3D scanner, MATLAB-based image processing, and Arduino-controlled conveyor automation.
- Engineered custom scanning path and 3D-printed end effector, achieving >99% defect detection accuracy via point cloud alignment, dimensional analysis, and automated defect detection.
- Integrated hardware/software subsystems with GUI for real-time defect visualization and automated sorting.