Sebastian Dytrych

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New Jersey

Mechanical engineer with a robotics concentration and strong foundation in embedded systems, CAD, and programming with entrepreneurial experience. Demonstrated success in founding multiple tech startups while maintaining academic excellence and pursuing practical engineering projects.

EDUCATION

Stevens Institute of Technology - Hoboken, NJ — August 2021 - May 2025
Bachelor's of Engineering, — **GPA: 3.80/4.00**
Major: Mechanical Engineering w/ Concentration In Robotics

- Dean's List, All Semesters
- Graduated With High Honors

EXPERIENCE

Stevens Institute of Technology, D2 Lab — January 2025- May 2025
Lab Administrator/Project Leader — Hoboken, NJ

- Led full-cycle design and fabrication of an autonomous dune buggy prototype, serving as a high-complexity reference for future freshmen in the Stevens General Engineering curriculum.
- Utilized SolidWorks, additive manufacturing, and FEA to design, validate, and produce core structural components.
- Designed lightweight, high-traction wheels, reducing weight by 40% over previous designs, to improve terrain mobility in loose-sand conditions.
- Directed daily lab operations, ensuring consistent uptime of 3D printers and electronics workstations for ~200 first-year students.

Modular Implement for Proramming Study (MIPS) — August 2024 - Present
Founder — Hoboken, NJ

- Developed modular, plug-and-play robotic kit to teach coding to students using SolidWorks, Arduino, and KiCad
- Led electronics design and contributed to mechanical, software, and sales/outreach
- Presented arm to 100+ students across six schools; 92% expressed interest in using it in the future
- Closed deal for 6 units within 9 months of conception, with an additional 12-unit deal in progress

Stevens Institute of Technology, PROOF Lab — May 2024 – September 2024
Robotics Engineering Intern — Hoboken, NJ

- Engineered bipedal robot for load-bearing locomotion across uneven terrain
- Architected a hip-centered actuation system that drives hip, knee (via linkage), and ankle roll/yaw, cutting leg inertia by ~30% while adding 2 new DoF to the ankle
- Optimized structural components via FEA in SolidWorks to balance strength and weight
- Delivered functional prototype under budget and presented findings to senior research engineers.

SKILLS/INTERESTS

Programming: MATLAB, Java, Python, C++
Languages: Polish (fluent), Mandarin (intermediate)