



MATTHEW NEJEDLO

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SUMMARY

Results-driven college junior with an extensive connection to the aviation industry and a keen interest in project management, product design, and mechanical engineering. Seeking to leverage hands-on experience, technical skills, and passion for emerging technologies to contribute to/grow from forward-thinking companies in the automotive, aviation and/or manufacturing sectors. Certified Private Pilot

EDUCATION

Illinois Institute of Technology, Chicago, IL

Expected 05 2025

B.S. Mechanical Engineering, 3.1 GPA

- Relevant Course Work: Thermodynamics, Fluid Mechanics, Computational Mechanics, Dynamics, Diff. Eq., Manufacturing Processes, Management and Leadership
- IIT Formula SAE (Electric)

PROFESSIONAL EXPERIENCE

Manufacturing Engineering Co-Op

Raytheon Technologies (Collins Aerospace), Rockford, IL

01 2023 - 08 2023

- Partnered in development of new Ram Air Turbine manufacturing or assembly processes as well as wind tunnel integration scalable to nearly 50% of RAT testing operations
- Co-Led a cross-functional team of engineers to implement shadowboards in nearly 15% of plant assembly areas
- Partook in continuous improvement initiatives, utilizing Lean Manufacturing and Six Sigma/Design for Six Sigma, to overhaul wind tunnel gantry mounting processes and protect Airbus A320 ram air turbines from damage due to FOD/ impact
- Studied Lean/Six Sigma (Green Belt)/ C.O.R.E doctrines for further application
- Ensured continuous manufacturing operations contingent to a >50% workforce reduction

Manufacturing Process Engineering Co-Op

American Orthodontics, Sheboygan, WI

01 2020 - 05 2020

- Collaborated in production and distribution of orthodontic devices to customers in over 110 different countries
- Learned how to conduct root cause analysis and enforce corrective actions to improve product quality and reduce defects to ideally, (3.4 errors per one million opportunities)

PROJECT EXPERIENCE

A.M.P.L.E.

06 2021 - Present

- Designed an illuminated-sterilizing handrail to create an (A)nti (M)icrobial (P)rotected (L)ighting (E)nvironment with goals to neutralizing at least 40% of germs/microbes in a test area
- Implemented additive manufacturing processes (3D Printing), and basic electrical wiring involving LED drivers

Private Pilot Training

05 2020 - Present

- Studied regulations and procedures governing private pilots, including airspace restrictions, flight planning, and aircraft maintenance requirements

SKILLS AND CERTIFICATIONS

- Technical Skills: SolidWorks, Autodesk, Inventor and Fusion 360, MATLAB, CNC Manufacturing, Soldering, Siemens NX
- Certifications: Leading and Motivating People with Different Personalities (American Negotiation Institute, 2023), Agile Project Leadership (Project Management Institute, 2023)

LEADERSHIP EXPERIENCE

Leadership Academy Scholar/Scholarship Recipient

04 2022 - Present

M.A. & Lila Leadership Academy

- Collaborated to further a highly-selective full-tuition scholarship program focused on:
- Enhancing critical thinking, problem-solving, and decision-making abilities through exposure to diverse perspectives and real-world challenges via 6 yearly seminars
- Cultivating self-awareness and emotional intelligence to lead and collaborate with others in a team-based environment

IIT Student Senator

09 2023 - Present

IIT Student Government Association

- Elected representative of +8,000 students at the Illinois Institute of Technology
- Votes on policies that impact student and faculty experiences at the university
- Advocates for the needs/wants of a student body-Ensuring IIT becomes a formidable force of global change

VOLUNTEER EXPERIENCE

Community Volunteer

05 2022 - Present

Just Roots Chicago

- Cultivated community in Chicago's south side neighborhood of Bronzeville
- Actualized "Just Roots" organizational ambition of providing clean, nourishing food to local community members

STEM Mentor

06 2021 - 06 2022

Ozaukee County Middle School STEM Club

- Facilitated teamwork and collaboration among ~20 students, by proctoring discussions to promote critical thinking and problem-solving skills