

# MATTHEW NEJEDLO

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## SUMMARY

Mechanical Engineer with hands-on experience in automotive and aerospace industries. Brings a solid background in systems engineering, Quality Engineering, and manufacturing processes. A "M.A. & Lila Leadership" Scholar recognized for leadership and teamwork. Proficient in SolidWorks and MagicDraw, with a passion for driving innovation and impactful solutions to complex problems.

## EDUCATION

Illinois Institute of Technology, Chicago, IL <b>B.S. Mechanical Engineering</b> <ul style="list-style-type: none"><li>IIT Motorsports (SAE Electric)</li></ul>	08 2021 - 05 2025
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## PROFESSIONAL EXPERIENCE

<b>VSET (Systems Engineer)</b> Ford Motor Co., Dearborn, MI <ul style="list-style-type: none"><li>Analyzed new vehicle platform behaviors, collaborating with cross-functional teams and technical specialists</li><li>Translated technical insights into activity diagrams (MagicDraw), informing vehicle system requirements</li><li>Developed an AI tool to automate activity diagram creation and synthesize relevant system requirements, enhancing efficiency of initial modeling</li><li>Led product execution proposals from customer input, including advocacy, pitch creation, and ROI analysis.</li><li>Collaborated with Marketing, Upfitter, and Accessory Engineering to define product behavior and assess market potential</li><li>Designed and prototyped new product concepts, managed quoting, and implemented cost reduction strategies</li></ul>	07 2025 - Present
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### Product Development (Systems Engineering) Intern

Ford Motor Co., Dearborn, MI <ul style="list-style-type: none"><li>Connected physical and logical architecture using SysML (MagicDraw)</li><li>Interfaced with a cross-disciplinary team to handle challenges in problem definition and communication</li><li>Identified opportunities for improvement in MBFMA tools and processes</li></ul>	05 2024 - 08 2024
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### Manufacturing Engineering Co-Op

Collins Aerospace (Raytheon Technologies), Rockford, IL <ul style="list-style-type: none"><li>Partnered in development of new <b>Ram Air Turbine</b> manufacturing or assembly processes as well as wind tunnel integration scalable to nearly 50% of RAT testing operations</li><li>Co-Led a cross-functional team of engineers to implement shadowboards in nearly 15% of plant assembly areas</li><li>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</li><li>Studied Lean/Six Sigma(Green Belt)/ CORE doctrines for further application</li><li>Ensured continuous manufacturing operations contingent to a &gt;50% workforce reduction</li></ul>	01 2023 - 08 2023
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### Manufacturing Process Engineering Co-Op

American Orthodontics, Sheboygan, WI <ul style="list-style-type: none"><li>Collaborated in production and distribution of orthodontic devices to customers in over 110 different countries</li><li>Learned how to conduct root cause analysis and enforce corrective actions to improve product quality and reduce defects.</li></ul>	01 2020 - 05 2020
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## 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 observation of and presentation in seminars
- Cultivating self-awareness and emotional intelligence to lead and collaborate with others in a team-based environment

**SKILLS AND CERTIFICATIONS**

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

**PROJECT EXPERIENCE**

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**A.M.P.L.E.**

06 2021 - Present

- Designed an illuminated-sterilizing handrail to create an Anti-Microbial/Protected Lighting Environment
- Implemented additive manufacturing processes (3D Printing), and basic electrical wiring involving LED drivers