

# Matthew Ekstract

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## Skills:

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*Programs:* Minitab, Visual Basic, Microsoft Suite (PP, Excel, Word), SOLIDWORKS, SAP, Python, MatLab, Ansys

*Statistical Analysis:* Process Capability, Control Charting, Gage Capability, Sampling Plan

*Professional:* Continuous Learning, Teamwork and Collaboration, Attention to Detail

## Education:

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BS, **Management and Engineering for Manufacturing - Dual Engineering and Business degree**

University of Connecticut, Storrs, CT

GPA: 3.66/4.00

Relevant Courses: Manufacturing Automation, Statistical Quality Control, Project Management, Six Sigma

**Engineering Senior Design Project, Project Manager**

*Immersive Learning in MEM: Embracing Industry 4.0 through Augmented Reality Education*

- Implemented Industry 4.0 technologies in a hands-on laboratory setting using Augmented Reality (Microsoft HoloLens), CNC machining, and integrated sensors to demonstrate advanced manufacturing practices

## Experience:

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**Siemens Healthineers**, Mishawaka, IN

*Operation Leadership Development Intern*, May 2023 - August 2023

- Developed and gained approval for a comprehensive **process validation** plan and supporting documentation for automated reagent manufacturing equipment
- Conducted an engineering study to **identify root causes** of a faulty process through failure analysis and structural problem-solving
- Extracted and cataloged over 2000 I/O PLC tags, creating a detailed sensor map for an automated production line to streamline troubleshooting efforts and reduce downtime caused by sensor issues

**Prysmian Group**, Willimantic, CT

*Process Engineering Co-Op*, March 2023 - June 2023

- Successfully led software and hardware installation/upgrade for a crucial manufacturing line's continuous ink jet printer, significantly **reducing downtime** and non-conforming products
- Created detailed work instructions and documented project processes for operator guidance and future replication on manufacturing lines
- Contributed to efficient inventory management through participation in monthly stock level counts and thorough documentation of inventory status for various materials, optimizing the supply chain process

**University of Connecticut**, Storrs, CT

*Senior Lab Manager*, October 2023 - May 2024

- Managed and improved lab equipment, space, and resources to support the MEM program, fostering collaboration and student engagement
- Collaborated with faculty to identify and address lab improvement needs, facilitating enhanced learning experiences for students

**Town of Fairfield**, Fairfield, CT

*Information Technology Intern*, June 2021 - August 2022

## Leadership and Volunteer:

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**MEM Society**, Storrs, CT

*Treasurer*, April 2023 - May 2024

- Planned and lead events for the MEM society, assisting in the educational support and professional development of students interested in management, engineering, and manufacturing

## Activities:

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Sigma Phi Epsilon Fraternity, UConn Men's Ultimate Frisbee, UConn Outing Club