

# Megan Kongable

## Mechanical Design Engineer

Norman, OK

(319) 777-2066

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### EDUCATION —

University of Massachusetts Lowell  
Lowell, MA

- ❖ Graduated: Dec 2023
- ❖ MS Plastics Engineering
- ❖ GPA: 3.79

North Dakota State University  
Fargo, ND

- ❖ Graduated (*cum laude*): May 2022
- ❖ BS Mechanical Engineering
- ❖ Minors: French, Coatings & Polymers
- ❖ GPA: 3.65

### SKILLS —

#### LAB

- ❖ ASTM & AATCC Standards
- ❖ Injection Molding
- ❖ Extrusion
- ❖ VARTM

#### PERSONAL

- ❖ Safety Focused
- ❖ Risk Management
- ❖ Timeline Management

#### INTERPERSONAL

- ❖ Collaboration
- ❖ Written Communication
- ❖ Oral Communication

#### COMPUTER

- ❖ AutoCAD
- ❖ MATLAB
- ❖ Java
- ❖ Python
- ❖ Creo 4.0
- ❖ Google Workspace
- ❖ Microsoft Office Suite

### CERTIFICATIONS —

Six Sigma Yellow Belt  
Six Sigma Black Belt – *In progress*

### WEBSITES —

<https://www.linkedin.com/in/mkongable/>

<https://megankongable.vercel.app/>

<https://github.com/mkongable>

### EXPERIENCE

Graduate Research Assistant | University of Massachusetts Lowell

*Jul 2022 – May 2023*

- ❖ Partnered with academic colleagues on durable eco-friendly flame-retardant textile coatings research and experiments resulting in a 400% increase in laundering durability using AATCC and ASTM standards.

Laboratory Tech Intern | Elinor Specialty Coatings LLC

*Nov 2021 – May 2022*

- ❖ Prepared, tested, and performed initial analysis for over 100 formulations, adhering to engineering standards and customer specifications.
- ❖ Prioritized and planned resource usage for a team of eight enabling the team to deliver five technical progress reports each month ahead of schedule to the CEO for customer briefing.

Tooling Engineer and Outreach Coordinator | Senior Design Project

*Aug 2021 – May 2022*

- ❖ Collaborated in a team of five engineers to plan, budget, schedule, and build a functional human-powered Mars rover under NASA mentorship, while adhering to strict client-defined criteria and constraints.
- ❖ Managed project documentation, including writing four technical reports, creating a two-minute video, and presenting two PowerPoints to demonstrate team progress and achievements to NASA engineers, fellow students, professors, and community members.
- ❖ Spearheaded the outreach initiative, teaming with ten teachers and three other NASA senior design groups, leveraging individual talents to teach over 1000 middle school students about the engineering design process, collaboration, and communication.

Undergraduate Research Assistant | North Dakota State University

*Sep 2018 – May 2022*

- ❖ Collaborated to design, prototype, and test a methane sensor containment unit. Utilized 3D printing for prototyping, and achieved leak detection in just 12 hours instead of 3 months.
- ❖ Designed and prototyped an innovative surgical cutting guide aimed at cutting surgery time in half and reducing infection risk in ankle replacement surgeries, leveraging CAD software. Led client meetings and ensured smooth project transition for continued development.

Mechanical Engineer Intern | Crystal Group Inc

*May 2021 – Aug 2021*

- ❖ Manufactured test units to conduct rigorous testing and analysis of thermodynamic data for precise heat sink characterization, resulting in the development of comprehensive documentation for customer delivery. Presented findings to senior company executives, ensuring accurate representation of product capabilities.
- ❖ Produced and revised technical drawings following company standards for more than 100 Engineering Change Notices (ECNs), ensuring accurate documentation for project specifications and quality standards.

Outreach Co-coordinator | Society of Women Engineers NDSU chapter

*Aug 2019 – Nov 2019*

- ❖ Teamed with four engineers to strategize and allocate weekly leadership tasks, leveraging each member's unique experience and strengths to prepare/deliver materials and presentations.
- ❖ Designed and delivered engaging materials, activities, and detailed presentations in materials, aerospace, and biomedical engineering fields to 2nd-3rd graders resulting in over 75% registering for future SWE outreach events.