

# Penelope Grace Springel

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701 E University Ave. Ann Arbor, MI 48109

## OBJECTIVE

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Third-Year Materials Science and Engineering student looking to apply creativity and passion for learning to further personal and professional development

## EDUCATION

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**University of Michigan, Ann Arbor, MI**

**Anticipated April 2024**

*Bachelor of Science in Materials Science and Engineering; GPA: 3.94/4.0*

**Lake Orion High School, Lake Orion, MI**

**July 2020**

*High School Diploma; GPA: 4.4/4.0*

## EXPERIENCE

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**Tau Beta Pi Michigan Gamma Chapter, Ann Arbor, MI**

*Publicity Officer*

*January 2021 – Present*

- Formulated chapter-wide announcements to recruit volunteers for upcoming events
- Facilitated teambuilding exercises to heighten team engagement and boost morale
- Supported service efforts such as instructing scouts on technical skills and making blankets for local shelters

**Miniature Tether Electrodynamics Experiment (MiTEE): Multidisciplinary Design Program, Ann Arbor, MI**

*Senior Plasma Scientist*

*January 2021 – April 2022*

- Performed trade studies to assess the viability of multiple design candidates and select the most suitable
- Constructed a Mission Concept Review to analyze lessons learned and implement them into future procedures
- Collated magnetic field data to predict spacecraft charging and refine mission science requirements

**Lake Orion High School FIRST Robotics Team #302, Lake Orion, MI**

*Awards and Community Outreach Team Lead*

*September 2016 – June 2020*

- Composed documentation of team's community outreach efforts to be sent to a panel of judges for recognition
- Coordinated 25-30 community events annually to reach people of all ages in the Lake Orion community to raise awareness of the importance of STEM, for charity, and for education
- Developed training curriculum to mentor new students with an intention of team sustainability and enhance student engagement
- Oversaw outreach to corporations and local businesses raising upwards of \$15,000 in two months

## AWARDS

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**University of Michigan Dean's List**

**December 2020, April 2021, December 2021, April 2022**

**University of Michigan Regents Merit Scholarship**

**June 2020**

**AP Scholar with Distinction**

**July 2019, July 2020**

## SKILLS

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### Computer

Windows, MacOS, Microsoft Office Suite, MATLAB, C++, Python, CAD, Solidworks, Materials Testing

### Professional Development

Presentational Speaking, Problem Solving, Empathy, Time Management, Desire to Learn, Teamwork