

SYDNEY MORGAN

924 E Juneau Ave 223, Milwaukee, WI 53202 | (715) 321-2431 | morgansydney923@gmail.com | <https://www.linkedin.com/in/sydney-morgan-2970a1a7/>

EDUCATION

University of Wisconsin - Milwaukee
Master of Science, Environmental Engineering **2023**

University of Wisconsin - Milwaukee
Bachelor of Science, Mechanical Engineering **2021**
Dean's Honors List

AWARDS

Chancellor's Graduate Student Award **September 2021**

TEACHING EXPERIENCE

University of Wisconsin - Milwaukee
Teaching Assistant to Dr. Andrew Dressel – "Dynamics" **Fall 2021**
Teach two lab section of 60 students total. Write, proctor, and grade quizzes. Grade exams.

RELATED EXPERIENCE

University of Wisconsin – Milwaukee – Milwaukee, WI
Research Assistant to Dr. Marcia Silva **June 2021 – August 2021**

- Assisted on projects related to engineered materials for removal of phosphorus from water.
- Carried out batch and column adsorption experiments, collect and analyze water samples for inorganic or organic analysis, and record and analyze data.
- Performed characterization of materials using BET, FTIR, Raman, zetasizer, DTG and microscopic analysis.

STRATTEC Security Corporation – Milwaukee, WI
Researcher **January 2019 – August 2021**

- Rotating co-op in departments: Test Lab, Quality Engineering, and Product Engineering.
- Lead component testing conducted capability and R&R studies, and designed testing fixtures.
- Performed tolerance stack-ups and DFMEA.
- Implemented web-based Metrology tracking system to replace old paper version, dramatically reducing human error and job time.

Marten Machining – Stevens Point, WI
Quality Engineering Intern **August 2015 – December 2018**

- CMM data analysis, inspection report documentation, nonconformance and root cause analysis, ERP database upkeep.
- Used statistical analysis to implement new sampling standard, saving 3 days per lot of 50 samples in inspection time.

CERTIFICATIONS, TRAINING AND SKILLS

- SAE GD&T Fundamentals Certification
- Chemical Hygiene Plan and Laboratory Safety Certificate of Training, UW-Milwaukee
- Knowledgeable in ProE Creo and rapid prototyping
- Experience with MATLAB, Minitab, and Arduino
- AMETEK Spectrometer Training Completion
- Epinephrine Certification

MEMBERSHIPS

Society of Women Engineers