

ZANDER HAROLD EGAN

Stevens Point, WI | (920) 222-0852 | zanderharoldegan@gmail.com

SUMMARY

Undergraduate Chemical Engineering and Paper Science student at the University of Wisconsin–Stevens Point with experience in laboratory research, process optimization, and analytical problem-solving. Proven ability to design experiments and improve system performance through PFOS remediation research using zirconium-based MOFs. Strong hands-on experience with mechanical, electrical, and process systems focused on industrial and applied engineering environments.

EDUCATION

University of Wisconsin–Stevens Point
B.S. Chemical Engineering and Paper Science

Expected Graduation: 2028

- GPA: 3.77

TECHNICAL SKILLS

- **Laboratory:** Chemical synthesis, adsorption experiments, solution preparation, experimental design
- **Data & Software:** Microsoft Excel (data analysis, regression, formulas), AI-assisted tools (automation, data analysis), CAD (3D modeling, part design, prototyping)
- **Engineering:** Process optimization, troubleshooting, systems analysis, technical documentation

RESEARCH EXPERIENCE

PFOS Remediation using Zirconium-Based MOFs

Feb 2026 – Present

Research Assistant

Stevens Point, WI

- Synthesized zirconium-based metal–organic frameworks (MOFs) and evaluated adsorption performance across varying pH, concentration, and environmental conditions to identify optimal PFOS removal conditions
- Analyzed experimental data in Excel to optimize adsorption efficiency and improve material performance under varying conditions
- Prepared solutions, set up experimental systems, and troubleshoot procedures to ensure consistent and reliable testing conditions

WORK EXPERIENCE

AgriFlight

Apr 2026 – Present

Fungicide Applicator / Ground Operations Manager

Chilton, WI

- Executed drone-based fungicide application operations covering 100+ acres/day while maintaining consistent application coverage and operational efficiency
- Coordinated chemical handling, system setup, and field logistics while managing ground operations for time-sensitive deployment cycles

Kolosso Chrysler Jeep Dodge Ram

Feb 2024 – Sep 2024

Automotive Service Technician

Appleton, WI

- Performed vehicle maintenance and diagnostics in a high-volume service environment

Stay at Home Care / Frontida Assisted Living

Oct 2022 – Feb 2024

Caregiver / PCA

Sherwood, WI

- Applied attention to detail and problem-solving to maintain safety and reliability in a care-focused environment

HOBBIES & INTERESTS

Computer systems and technical problem-solving

||

Electrical systems, wiring, and troubleshooting

Automotive diagnostics, repair, and maintenance

||

3D printing and CAD-based design projects

Furniture building and fabrication projects

||

Ice skating and recreational athletics

AWARDS & INVOLVEMENT

Solenis Laboratories Endowment Scholarship

||

American Institute of Chemical Engineers (AIChE)

Lake States TAPPI Endowment Scholarship

||

Teaching Assistant (2 semesters)

Paper Science & Engineering Program (UWSP)

||

Dean's List (4 semesters)