

Will T. Dumont

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EDUCATION

Clarkson University , Coulter School of Engineering & Applied Sciences	Potsdam, NY
<i>Bachelor of Science, Chemical Engineering with Distinction</i>	May 2025
Sustainable Energy Systems Engineering Minor & University Honors Program	GPA: 3.74/4.00

WORK EXPERIENCE

GlobalFoundries Inc.	Essex Junction, VT
<i>Reactive Ion Etch Process Engineering Intern</i>	May 2024 – August 2024

- Developed new recipe using an endpoint algorithm to improve wafer recoveries and prevent quality deviations, saving up to \$30,000 annually due to reduction in scrapped wafers
- Modified recipe limits to reduce frequency of wafer aborts and ensured quality standards were maintained using Failure Mode and Effects Analysis (FMEA) methodology
- Compiled planned maintenance documentation to predict department spending on equipment upkeep and operation
- Analyzed data for second-source gas qualification that will save \$28,000 annually when compared to current supplier

<i>Ion Implant Process Engineering Intern</i>	May 2023 – August 2023
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- Implemented process change on 3 operations to cut time of the implant process in half and save a projected \$20,000 annually due to decreased use of parts
- Analyzed operations not yet deployed on new medium current toolset and prioritized based on feasibility and production quantity, projected annual savings of over \$80,000 if all operations are deployed to new toolset
- Collaborated with automation team to install new robot to fully automate stocker-to-tool process
- Diagnosed issues the team experienced with next-generation tools, working with tool manufacturers and other fabs

Clarkson University Department of Chemistry & Biochemistry	Potsdam, NY
<i>Undergraduate Teaching Assistant</i>	August 2022 – May 2025

- Taught General Chemistry laboratories and recitations to help students with problem-solving methods and skills
- Received an average instructor satisfaction rating of 4.9 out of 5 from anonymous evaluations of 250+ students

TECHNICAL SKILLS

Computer Language and Software: Python, MATLAB, Microsoft Office (LinkedIn Excel Certification)
Advanced Manufacturing: Statistical Process Control (SPC), Failure Mode and Effects Analysis (FMEA), semiconductor fabrication, plasma etching, ion implant, factory automation, process qualification and optimization
Engineering Design: process design, heat exchanger design, distillation column design, plant layout, equipment sizing
Team Leadership: Project Management, Fundraising, Budgeting, Event Planning, Mass Communication
Sustainability: Life Cycle Assessment, Inventory, and Impact Analysis; LEED and Envision Rating Systems

ADDITIONAL EXPERIENCE

Clarkson University Ski & Snowboard Club	Potsdam, NY
<i>President</i>	April 2024 – April 2025

- Managed executive board for the largest student organization at Clarkson (300+ active members)
- Collaborated with various resorts to offer discounted season passes and plan weekend trips for club members
- Led planning of Clarkson's first-ever rail jam event, coordinating with local businesses and developing safety plan

<i>Treasurer</i>	April 2023 – April 2024
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- Sole person responsible for club budget of nearly \$70,000, including fundraising and asset management

HONORS & AWARDS

Edward D. Sayer Memorial Award for Excellence in Teaching – Awarded May 2025
Clarkson Phalanx Leadership Honor Society – Inducted April 2025
Clarkson Commendable Leadership Award – Awarded April 2025
Clarkson Project Expo: Best Undergraduate Presentation in Industrial Ecology – Awarded November 2024
Omega Chi Epsilon Chemical Engineering Honor Society – Inducted November 2023