

Aaron Anderson

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Education

Northwestern University

BS IN CHEMICAL ENGINEERING

GPA: 3.64

Evanston IL

Sep 2013 – Mar 2017

Experience

Ecolab

QUALITY ENGINEER

Chicago, IL

Jun 2017 – Present

- Completed a six sigma green belt project to remove contaminants in colloidal silica products used in the electronics industry
- Tracked capability and failure data for over 100 products and used this information to implement improvements and cut losses
- Helped implement OSI PI software to move towards statistical process control
- Worked directly with customers to respond to complaints, identify root causes, and make improvements

Ecolab

QUALITY INTERN

Naperville, IL

Jun 2016 – Sep 2016

- Worked on a DMAIC quality improvement project spanning 4 continents in the Cooling Water division
- Used SAP and Minitab to obtain plant production data and perform process capability analysis on a number of specifications

Tyo Research Group (Northwestern University)

RESEARCH ASSISTANT

Evanston, IL

Jun 2015 – Jun 2016

- Assisted a PhD student on a variety of approaches to engineer and analyze microbial metabolite concentrations to infer metabolic pathways and regulation sites
- Frequently used gas chromatography-mass spectrometry and high performance liquid chromatography to separate and analyze certain metabolites

Engineers for a Sustainable World

SUMMER FELLOW

Evanston, IL

Aug 2015 – Sep 2015

- Worked with a student group focusing on using anaerobic digesters to turn food waste on campus into methane to supply energy to the University
- Conducted feasibility studies on different types of anaerobic digesters

Skills

Basic Knowledge: C/C++, Python, Java, HTML, LaTeX

Proficient: SQL, MATLAB, R, GAMS

Operating Systems: Windows, Linux, Mac OS

Projects

Chicago CTA expansion optimization

DEVELOPED AN OPTIMIZATION MODEL FOR A HYPOTHETICAL EXPANSION OF CHICAGO CTA RAPID TRANSIT SYSTEM TO INCREASE RIDERSHIP AND REVENUE

Microfluidic DNA-based device for Chagas disease diagnosis in Mexico

RESEARCHED A POSSIBLE PAPER-BASED MICROFLUIDIC DIAGNOSTIC DEVICE FOR CHAGAS DISEASE THAT COULD MEET COST AND SENSITIVITY CONSTRAINTS AND DEPLOY IN RURAL MEXICO

NU Shop Tutorials

CREATED A WEBSITE THAT HOUSED TUTORIALS FOR HOW TO USE DIFFERENT MACHINES IN THE PROTOTYPING AND FABRICATION LAB IN THE SEGAL DESIGN INSTITUTE AT NORTHWESTERN UNIVERSITY

Honors

4 quarters **Deans List**, Achieved 3.75 GPA or greater

*Northwestern
University*