



# Zachary T. Weintraut

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## About

A driven engineering student with strong interpersonal skills and an eagerness to advance processes & technology using tested scientific approaches to innovation.

## Skills

Research & Development

Excel

Emotional Intelligence

ASPEN

Public Speaking

Teamwork

Regulatory Compliance

MATLAB

Process Development

SharePoint

Agile Methods

Process Modelling

Strategic Planning

COMSOL

Workflow Automation

Power BI

Project Management

C++

Salesmanship

Python

HTML

## Honors

- ★ NASA Aerospace Scholar
- ★ Society of Chemical Industry Scholar
- ★ Elmo Foundation Scholar (Service)

## Education

### Rowan University (Honors)

Glassboro, NJ

### Chemical Engineering, B.S.

Materials Science Specialization

Graduation Spring 2019; GPA: 3.8

### Camden County College

Blackwood, NJ

### Mathematics, A.S.

Graduated May 2017; GPA: 3.9

### Chemistry, A.S.

Graduated Dec. 2016; GPA: 3.9

## Experience

### Water Intelligence R & D Intern

American Water

09/18 – Present

Cherry Hill, NJ

- Developing a data pipeline from process sensors for improved operation, maintenance, and treatment measures

### Operations Intern

American Water

08/17 – 05/18

Mt. Laurel, NJ

- Implemented cloud-based automation processes to develop autonomous workflows saving company time and resources
- Developed desktop and mobile compatible contract, cost-savings, and onboarding intranet services using Microsoft Sharepoint

### Engineering Intern

Carus Corporation

06/16 – 08/16

LaSalle, IL

- Developed new plant-wide process and instrumentation diagrams (P&IDs) and preventative maintenance measures to comply with stricter EPA hazardous air emissions regulations
- Doubled the onsite supply of chemical product by leading a project to design and install a secondary 2000 gallon tank

## Research

### *Electrochemical Oxidation Of A Model Wastewater Contaminant Using Boron Doped Diamond Electrodes (REU)*

University of Arkansas & Rowan University

05/18 – 09/18

- Determined optimum operating conditions for low-cost water treatment, as low as 75 cents per kilogram of contamination

### *Liquid Nanostructured Fibers For Continuous Catalytic Reactions*

Rowan University

09/17 – 12/17

- Identified structurally weak functional group additions to acrylated silica nanoparticle BIJELs, guiding research in new directions

## Service

Engineers Without Borders, Rowan University 01/18 – Present

- Rebuilding water infrastructure of Ranshet school in India.

i-STEAM Tank Judge, NJ School Board Ass. 10/16 – Present

- Judge students K-12 in a Shark Tank themed STEAM competition.