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# ALEXANDER J. WILSON

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## EDUCATION

### Clarkson University, Potsdam, NY

Bachelor of Science

Major: Environmental Engineer,

Class of 2017

Minor: Sustainable Energy Systems Engineering

## ENVIRONMENTAL ENGINEERING PROJECTS

### **Aeroponic Units in High Rise Residential Housing:** Project, Clarkson University

- Conducted feasibility analysis of Aeroponic Units.
- Developed a layout plan of a potential design of the Aeroponic units in Residential Housing

### **Anaerobic Digester System Design:** Senior Project, Clarkson University

- Tested feasibility of membrane use in anaerobic digestion to improve biogas production.
- Analyzed different cations for removing ammonium from digester product to improve biogas production.

### **Rainwater Catchment System Design:** Project, Clarkson University

- Designed Catchment system
- Catchment System included subsurface flow water treatment system for an Industrial Park.

### **Sustainability Project Experience,** Devils Thumb Ranch: Tabernash Colorado

- Produced fault detection LabView code for a DC microgrid, and evaluated facilities electrical schedules.
- Developed code was introduced to the systems on site
- Evaluated electrical schedules were used to innovate on current illumination schedules and PV array.

### **Solar Farm CO2 Sequestration vs. Biomass CO2 Sequestration:** Project, Clarkson University

- Evaluated effectiveness of Solar and Biomass for CO2 sequestration.
- Sequestration by Solar arrays offsets CO2 production more effectively than Biomass growth.

## TECHNICAL SKILLS ATTAINED

- Project Management – Management of teams to evaluate an issue and resolve it.
- Microsoft Word, Power point, Excel, MATLAB, ArcGIS, LabVIEW

## AFFILIATIONS

- Sigma Phi Epsilon Fraternity:
  - Leadership: Directing and organizing philanthropy
  - Event management and development

## EMPLOYMENT

**Capital Communications Federal Credit Union,** Albany New York: Summer 2016

### *Mortgage Servicing Intern*

- Managed incoming mortgage documentation and handled accordingly.
- Utilized organizational skills for enhanced mortgage filing efficiency.
- Effectively learned all required banking programs.

**Clarkson University Knightline,** Potsdam New York: *Caller* 2013 - Present

- Actively connect and communicate with alumni in order to secure donations.

**AD Wilson Scholastic Products and Services,** Niskayuna New York: *Sales Assistant* 2006 - Present

- Interacted positively with customers and handled situations accordingly.
- Discussed and finalized sales.

**Michael's,** Latham New York: *Replenishment Associate* May 2014 - January 2016

- Enhanced the workplace through well-developed teamwork.
- Constructed store displays and re-formatted plans if necessary.