

Jacob Cochrane

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Objective

Gain experience in fields related to the environment and natural resources in order to prepare myself for a career in Biosystems Engineering following my graduation from Michigan State University.

Education

Michigan State University, East Lansing MI

Expected May 2017

Bachelor of Science, Biosystems Engineering

- 3.63 GPA, Dean's List for Five Semesters
- Coursework includes classes in Engineering, Ecology, Design, and Environmental Modeling

Sustainable Food, Environment, and Social Systems Study Abroad

Summer 2015

- Cultural experience of sustainable practices in Australia
- Exposed to revolutionary research and technology
- Participated in service projects aimed at restoring fragmented landscapes

Experience

Field/Lab Assistant

Summer 2016

Michigan State University, *Department of Horticulture*

- Set up and maintenance of field, greenhouse, and laboratory scale experiments
- Sampling, processing, and analysis of soil and plant biomass
- Exposure to organic and conventional methods nutrient and weed management

Research Assistant

October 2014 - March 2016

Michigan State University, *Biosystems Engineering*

- Set up and conduct experiments focused on wetlands and bioretention basins
- Conduct water testing for COD, pH, turbidity, and suspended solids
- Presented proposed research project at Stewardship Network Conference in East Lansing

Wetland Design Team Member

August 2015 - May 2016

Michigan State University, *EPA P3 Project for Wastewater Treatment in Costa Rica*

- Design and implementation of wastewater treatment in the rural Shaubb community
- Researching sustainable options for the community
- Lead the surveying team in Costa Rica

Borchers AuSable Canoe Livery and Bed and Breakfast

June 2011 - August 2015

Grayling, MI

- Voted 2014 "Borchers Best" by fellow staff members for being employee of the summer
- Communicated with customers the details of their canoe trip, promoted a good image for the business, and created a schedule of customer reservations

Skills and Abilities

- Knowledgeable with Microsoft Office
- Experience using a Total Electric Station (TES)
- Experience sampling, processing, and testing soil and plant biomass