

36 Eckerson Lane  
Spring Valley, NY, 10977

*Ray-Nilsen Felix*

Email: [raynilsenfelix@gmail.com](mailto:raynilsenfelix@gmail.com)

Phone: (845) 499-8064

---

## EDUCATION

University at Buffalo, State University of New York  
B.S. Civil Engineering

Buffalo, NY  
Expected May 2020

## PROJECTS/ORGANIZATIONS

### Capstone Project

January 2020-May 2020

- Worked on and helped produce team and project management plans on NYSDOT building
- Designed elevated composite slab, office framing, elevator/staircase, & connections
- Enhanced ability to apply design principles to produce solutions & to communicate effectively
- Compiled project into report and poster to present to supervising PEs and professors

### Silo City Pedestrian Bridge Design

September 2018-April 2019

- Visited site and analyzed geotechnical/soil data
- Completed live/dead loads calculations before a SAP2000 analysis
- Presented chosen concept to owner and others for approval

### ASCE Seismic Design

September 2018-March 2020

- Helped with construction of a balsa wood tower that can withstand various levels of quakes
- Competed at Seismic Design Competition/EERI Conference in Sand Diego, CA

### Academic Bowl (Vice President)

February 2019-May 2020

- Devoted to advancing collegiate competition based on knowledge of academics/pop culture
- Make sure requirements are met and help organize club events

### ESW Aquaponics (Assistant Structural Analyst)

September 2018-April 2019

- Designed and built a self-sustaining aquaponic system using renewable energy
- Focused on structural analysis and used machine shop to construct various sections

## EMPHASIS COURSEWORK

### Steel Design

- Selected structural members that satisfy the strength, stability, and serviceability limit states, at least cost

### Foundation Engineering

- Completed a project on slope stability of Grand River watershed using limit equilibrium analysis

## SKILLS

- Excel
- AutoCAD Civil 3D
- Leadership
- French
- Revit
- GIS
- Teamwork
- Customer Service

## WORK EXPERIENCE

University at Buffalo, Position: Head Official for Indoor/Outdoor Soccer

Sep 2016 - May 2019

- Acted as a resource and service person for about 2000 players and participants
- Provided training to the intramural officials staff & attempted to anticipate problems

## INTERESTS

- Trivia
- Sports
- Traveling