

Michael C. Schuyler

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Education:

Binghamton University, State University of New York, Watson School of Engineering

Bachelor of Science in Mechanical Engineering

Expected May 2021

Best Project Design for Energy Efficient Toaster, May 2018

Society of Automotive Engineers, Binghamton Motorsports

Society of Automotive Engineers, Super-Mileage

Technical Skills:

Creo	Excel/Word	SiteManager	Soldering
MATLAB	Solid Works	Arena	Mathematica

Professional Experience:

NYS Department of Transportation – Transportation Construction Inspector (TCI)

Hudson Valley Region, NY

Summer Undergraduate Internship

May 2019 – August 2019, April 2020 – August 2020

- Performed field inspections under an Engineer-in-Charge and alongside other Inspectors on multiple projects around the Hudson Valley
- Conducted asphalt inspections on various jobs to ensure proper grade, lift thickness, and compaction
- Supervised rehabilitation of steel beam, confirming proper preparation, welding, and placement
- Oversaw appropriate placement of concrete for bridge abutments
- Logged items completed and hours worked for contractors and approved payments

Professional Project Experience:

D264036 – I-587 at Albany Avenue Intersection Improvements (Roundabout Installation)

Kingston, NY

D264126 – Route 22 Pavement Restoration Project

Canaan, NY

D263952 – Route 22 I-90 Interchange Pavement Project

Canaan, NY

D263881 – Route 66 Major Bridge Rehabilitation Over Kline Kill

Ghent, NY

Collegiate Project Experience:

Senior Design: Society of Automotive Engineers, Super Mileage

Binghamton, NY

Team Member

August 2020 - Present

- Collaborated in multidisciplinary team of eight to design, implement, and test a vehicle designed for high efficiency
- Led design of fuel system and engine components to meet requirements set by SAE Competition

Junior Design: Motorized Scissor Jack

Visionary

August 2018 - May 2019

- Effectively planned and executed a timesheet to meet product completion deadline
- Designed a product to allow easier access to the complete the task of a standard car scissor jack
- Utilized multiple CAD programs to analyze and prove the products functionality and safety factor successfully

Leadership and Involvement:

Society of Automotive Engineers, Binghamton Motorsports

Binghamton, NY

Electronics Team Member

September 2018 - May 2019

- Developed a thorough breakdown and rebuild of motorcycle engine wiring harness
- Designed and built multiple mounting brackets for items such as taillights and computer
- Worked alongside a group of student engineers to build a high-performance car and participate in Formula SAE Michigan

Physics Outreach Program

Binghamton, NY

Volunteer Instructor

October 2017 - May 2018

- Engaged groups of children grades K-5 in innovative activities following a designed curriculum
- Led intriguing science-related lessons to children in schools surrounding Binghamton University
- Worked with a team of other student volunteers to plan and organize each event