

## Education

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- University of Illinois at Urbana Champaign** August 2019- Fall 2022  
**Civil and Environmental Engineering** - Champaign IL, U.S.  
Anticipated Graduation: Fall 2022 || GPA: 3.75/4 (Spring 2022)
- Tompkins High School** - Katy TX, U.S. August 2015 - May 2019  
Graduated: Highschool Diploma, Spring 2019 || GPA: 4.6/5

## Skills and Certifications

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Revit Structural Modeling and Mechanical Design, ACI Structural Building Codes, ABAQUS, Python3, FEniCS, Excel, Open Studio, Primavera P6, Navisworks  
- HeatSpring Solar Decathlon Building Science Education Series Certificate

## Work Experience

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- Upcoming Structural Engineering Intern** May 2022 – August 2022  
**Burns & McDonnell**  
- Take part in the transmission and distribution global practice sector  
- Assist in substation and critical electrical infrastructure design
- Student Research Position** September 2021 - present  
**CEE REU (Research Experience for Undergraduates) Program**  
- 1<sup>st</sup> topic: study and improve upon established computational approaches in building multi-phase flow models to obtain a better realization of structure-property relationships for metal additive manufacturing  
- 2<sup>nd</sup> topic: contribute to a moving-domain CFD solver in a source finite element automation software with applications to tidal turbine simulations in turbulent flows for more efficient energy generation
- Covid Test Collection Shift Lead** August 2020 - present  
**Illinois Human Resources**  
- oversee shift workers and manage code standards with zero safety incidents  
- successfully register 500+ testers daily

## Projects and Leadership

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- Structural Team Member** August 2021 – Present  
**Illinois Solar Decathlon (Build Team)**  
- establish preliminary structural framework based on an architectural prototype design  
- conduct background research on past SAP 2000 structural load analysis reports ahead of active applicative integration
- HVAC & Energy Analysis Team Manager** August 2020 – May 2021  
**Illinois Solar Decathlon (Design Team)**  
- lucratively finalize design plans for Revit hybrid air/water HVAC systems  
- effectively conduct energy analysis through SketchUp with OpenStudio plugin  
- accurately conduct cost analysis for a 40k sqft commercial office building  
- direct team members into the finalist round of the national 2021 EERE design challenge
- Secretary Officer** May 2019 - present  
**Structural Engineering Association**  
- professionally managed EOH and CEE kickoff preparation  
- directed in social events, general meetings, company outreaching events  
- attended the 2020 SEA structures national symposium

## Honors and Achievements

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- Dean's List for the academically achieved** Spring 2020 – Fall 2021  
- reached top 20% of the collective Grainger Civil Engineering class
- Eli W. Cohen Thornton Tomasetti Foundation Scholarship Recipient** Spring 2022