

Ahmed Mohamed

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Education

New Jersey Institute of Technology, Newark, New Jersey

September 2020 - May 2024

Bachelor of Science, Civil Engineering

GPA: 3.23

Minor: Environmental Engineering

Dean's List: Fall 2021, Spring 2022, Fall 2022

Skills

Software: AUTOCAD, CIVIL 3D, REVIT, ROBOT STRUCTURAL ANALYSIS, MATLAB

Projects & Team Experience

American Society of Civil Engineers — *Steel Bridge Team* — Member

Spring 2022

- Achieved 1st place in stiffness and in construction speed among fourteen colleges
- Assembled bridge through fabricating connectors and abutments for spans to achieve stiffness
- Adjudicated technical comments and response to comments to finalize design

Relevant Courses

Structural Analysis

Fall 2022

- Conducted approximate analysis of structures to determine reactions at supports and observed the structure's member behavior through shear and moment diagrams
 - Applied concept to "Robot Structural Analysis" program
- Evaluated various solutions to indeterminate beams and beam supports
- Evaluated method of virtual work on trusses to determine deflection at a specific joint

Civil Engineering Methods

Spring 2022

- Designed roads, pipeline networks, and parcels using Civil 3D
- Learned architectural structure design through Revit
 - Lead a final group project to replicate an eight story on-campus residence hall building
- Developed presentation skills for CAD projects

Construction Materials & Procedures

Spring 2022

- Construction management and project scheduling
- Contracting types and strategies
- Civil engineering ethics

Current Courses

Spring 2023 — Soil Mechanics, Soil Mechanics Laboratory, Reinforced Concrete Design, OSHA in Civil Engineering, Transportation Engineering, Sustainable Engineering Materials

Future Courses

Fall 2023 — Foundation Design, Construction Materials Laboratory, Steel Design, Civil Engineering Design I

Work Experience

Brother's Pizza II — Cook

Mid 2018 - 2020, Summers 2021 & 2022

102 Sunset Blvd, West Cape May, N.J

- Employed in family business.
- Functions: cook, cashier, food/ingredient prep, continued deliveries
- Developed strong leadership and communication skills, collaborating effectively with both family members and employees to achieve shared goals
- Learned effective time management
 - Fast-paced environment
 - Time constraints placed by customers

Other

- U.S citizen. Written and oral fluency in Arabic and English