

Andy Cheng

STRUCTURAL ENGINEER



BACKGROUND SUMMARY

Andy is a 2023 graduate of Georgia Institute of Technology. He graduated with his Bachelors of Science in Civil Engineering and was frequently on the Dean's List.

Andy successfully passed the FE exam in September of 2023 and will serve Dos Santos International as a Structural Engineer.

PROFESSIONAL BACKGROUND

DOS SANTOS INTERNATIONAL

Marietta, GA, 2024 - Present (Structural Engineer)

Responsibilities:

- Design and development of advanced bulk material handling systems
- Engineering consulting
- Project development
- Mechanical and Structural analysis
- Field assistance

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA, 2021 - 2023 (Student)



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RELEVANT COURSES:

- Civil Graphics
- Statics
- Structural Analysis
- FEA
- Sustainable Design
- Geotechnical
- Project Cost Benefit Analysis
- Fluid Mechanics
- Materials
- Transportation Engineering
- Steel Design
- Polymer Design
- Reinforced Concrete Design
- Timber & Masonry Design
- Foundation Design

COURSE PROJECT EXPERIENCE

Design of Steel Structures for Auburn University's Amphitheatre Roof (Structural Design Project)

Responsibilities:

- Design of the Amphitheatre Roof according to AISC, IBC, and ASCE design codes will adhering to customer's goals & limitations.
- Created a 3D model of the structure including fully designed beams and columns using Tekla Structural.

Design of Pedestrian Bridge for East Palisades Trail:

Responsibilities:

- Design bridge using pultruded Fiber RFP while adhering to ASCE LRFD standards for Pultruded Fiber FRP.
- Provide a 3D model to support the design.

Steel Fink Truss:

Responsibilities:

- Design Truss to accommodate loads that would be experience by the roof of a warehouse building.
- Design and size each member of the Fink Truss according to AISC LRFD.

Warehouse Design located in Dahlongea, GA:



- Design a large warehouse space using timber & masonry as building materials with consideration for environmental loads.
- Design the structure adhering to ASCE, AWC's NDS.

Champlain Tower Collapse

Responsibilities:

- Research and determine the cost of the collapse of the Champlain Tower located in Miami, Florida.
- Provide structural insufficiencies that lead to the collapse.

PROFESSIONAL PROJECT EXPERIENCE

Rigging and Hoisting for Unit 4 Restoration at Parish Plant.

Responsibilities:

- Restore duct that was damaged and dislocated to an explosion at the plant.
- Design in accordance to AISC and ASME.

Access design and Take-Up Carriage for Sandwich Belt high angle conveyor at AA Quarry.

Responsibilities:

- Design Take-Up Carriage for Sandwich Belt Conveyor.
- Design Access such as stairs and platforms for the Headend of the Sandwich Belt Conveyor.
- Design in accordance to AISC.

3D modeling of Twin Elevator Project for D.C. Water.

Responsibilities:

- Create a 3D model that would be used for fabrication and assembly.

Portable and Collapsible C-Shaped Sandwich Conveyor for BishTech.

Responsibilities:

- Create a C-Shaped Sandwich Conveyor that would continuously recycle sand used for potato harvesting
- Design in accordance to AISC



EDUCATION

Georgia Institute of Technology, Bachelor of civil engineering.

TECHNICAL SKILLS

- RAM Elements
- AutoCAD
- Civil 3D
- Advance Steel
- Tekla Structure
- RAM Structural Systems
- Matlab
- Fluent in Mandarin



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