

Emmet Brickowski

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OBJECTIVE: Fourth-year Civil Engineering student seeking a job as a Project Engineer at Bricksburg Construction

EDUCATION

LEGO City University

Bachelor of Science in Civil Engineering | GPA: 3.8/4.0

LEGO City, DK

Expected Graduation: June 2024

Relevant Coursework: Statics, Principles of Computer-Aided Design

SKILLS

- **Manufacturing:** CNC and Manual Milling, Drill Press, Lathe, Band Saw, Laser Cutting, 3D Printing
- **Software:** AutoCAD, SAP2000, SolidWorks, Microsoft Suite, Google Suite
- **Languages:** Fluent in English, Conversational Robot

WORK EXPERIENCE

Civil Engineer Intern, Bricksburg Construction, Bricksburg, DK

June 2022 - September 2022

- Created pre-construction civil engineering design plans using multiple technical software programs
- Developed familiarity with federal, state, and local regulation and ensured compliance by filing for permits
- Read and interpreted engineering drawings and specifications, and communicated plans to multiple vendors
- Solved complex problems and aided project managers to ensure the successful completion of projects
- Visited projects at various stages, gaining exposure to the build and inspection process of new buildings

Petsitter, Bricksburg, DK

June 2021 - September 2021

- Supervised and cared for pets, including cats, dogs, bunnies, and chickens, prioritizing animal safety and comfort
- Fed, exercised, and administered medication as needed for pets, with precision and on specified schedules
- Communicated with owners through text, email, and phone call regarding the wellbeing of their animals and providing updates to ensure a positive experience for owners

PROJECTS

Construct-o-Mech, Personal Project

September 2022 - November 2022

- Ideated and constructed a mechatronic suit out of 20,000+ bricks and pieces to effectively destroy 100+ Micro Manager robots
- Brainstormed ideas, drafted plans in CAD, and produced a prototype for testing
- Performed testing and analysis, including thermal and stress tests to ensure the suit could withstand forces of upwards of 20,000 N
- Scaled the prototype to create the final full-size suit following the design specifications

Model Bridge, Principles of Computer Aided Design, LEGO City University

April 2021 - June 2021

- Sketched a preliminary design using engineering principles to maximize strength of the bridge and ensure conformity to certain design criteria
- Converted the design to a working computer model using SAP200 to perform structural analysis
- Crafted the final model bridge using wood and glue, to produce clean and polished final result
- Presented Model Bridge to 100+ peers and engineering professionals, and won Best Elevator Pitch among 50 projects

ACTIVITIES

Club President, LEGO City University Civil Engineers Chapter, LEGO City, DK

September 2022 - Present

- Host 6 social events per year for a group of 100+ club members in order to boost club morale, unite team members, and fundraise over \$2,000+ needed for yearly expenses
- Organize 2 networking events per year, allowing club members to network with potential employers and other industry professionals