

S. Stites Allen

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EDUCATION

University of Vermont

Burlington, VT

College of Engineering and Mathematical Sciences

Aug 2021 - May 2025

- Bachelor of Science in Engineering | Minor in Mathematics
- Cumulative GPA: **3.71** | Minor GPA: **3.70**
- Presidential Scholar | Dean's List Recipient

RELEVANT PROJECTS

CIM-LRD Competition: Boston Blue Line Extension

- Honorable mention and \$10,000 prize in CIM-LRD Design Competition
- Designed excavation and construction of water retention systems
- Collaborated with heavy construction experts with local experience

Structural Analysis: Gutterson Parking Garage

- Performed comprehensive load analysis of the Gutterson Parking Garage
- Included regional consideration for structural loads in Burlington, VT

FEA: Mechanics of the Golf Swing

- Conducted finite element analysis (AbaqusCAE) of a golf swing
- Modeled collision between golf club and ball at varying speeds
- Analyzed stress distribution on club face and ball

Work Hard Play Hard Rollercoaster

- Designed human-powered rollercoaster using mechanical advantage
- Modeled and evaluated individual components in CAD
- Collaborated with a team to ensure feasibility and safety

WORK EXPERIENCE

McGillicuddy's Alehouse

Williston, VT

Line Cook

May 2023 - Dec 2023

- Worked in fast paced, team-oriented kitchen environment
- Took initiative to complete extra tasks and assist coworkers
- Maintained high standards of cleanliness and task management

Cherokee Golf Course

Louisville, KY

Clubhouse Operator

July 2022 - Aug 2022

- Independently operated clubhouse in manager's absence
- Developed multitasking and time management skills
- Communicated with customers and oversaw daily operations

TECHNICAL SKILLS

AbaqusCAE

AutoCAD

SolidWorks

Arduino

HTML/CSS

Javascript

Python

R studio/R Markdown

Microsoft Office

RELEVANT COURSES

Computational Solids

Design of Elements

Dynamics

Hydraulics

Materials and Structures

Structural Analysis

Structural Steel Design

System Dynamics

Thermodynamics

PROFESSIONAL SKILLS

Critical Problem Solving

Coachability

Adaptability

Communication

Collaboration

Emotional Intelligence

ACTIVITIES

Data Analytics

Design & Illustration

Golf

Fantasy Sports

Intramural Sports(2x champ)