STRENGTHS

Team Collaboration
Consistently foster unity among team members in projects, leading to improved synergy and shared successes.

Problem Solver
Embrace challenges head-on, always finding practical solutions through constructive analysis and teamwork.

Creative Thinker
Innovate new approaches, often leading teams toward fresh ideas and unique angles in engineering projects.

Detail-Oriented
Constantly ensure accuracy and thoroughness, minimizing errors across all stages of project execution.

Effective Communicator
Communicate complex concepts seamlessly with peers and faculty, enabling better understanding and collaboration.

SKILLS

Structural Design
Foundation Design
AutoCAD
Revit
Python
Project Management
Team Collaboration
Technical Communication

LANGUAGES

English — Native
Spanish — Proficient

Matias Cruz

Civil Structural Engineering Intern

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SUMMARY

Dedicated Civil Engineering student with hands-on experience through academic projects focusing on structural and foundation design. Proven ability to collaborate with diverse teams and tackle complex engineering problems. Eager to contribute innovative solutions in a professional internship setting while further developing engineering skills. Completed detailed design plans using software such as AutoCAD and Revit, ensuring compliance with safety standards. Engaged in enriching team environments that prioritize learning while preparing for real-world applications. Ability to adapt visions into functional designs showcases readiness for challenges ahead.

EDUCATION

Bachelor of Science in Civil Engineering

University of Central Florida GPA: 3.8 2027 Orlando, FL

Coursework: *Structural Design, Foundation Design, Construction Materials, Environmental Engineering*

TECHNICAL SKILLS

- **Design Tools:** AutoCAD, Revit, SketchUp
- **Programming Languages:** Python, Java, C++
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Data Analysis Tools:** Excel, MATLAB, R
- **Communication Tools:** Slack, Microsoft Teams, Zoom
- **Research Methodologies:** Qualitative Analysis, Quantitative Analysis, Case Studies
- **Testing Frameworks:** Unit Testing, Integration Testing, System Testing
- **Reporting Standards:** IEEE, ASCE, APA
- **Materials Testing:** Compression Testing, Tensile Testing, Shear Testing
- **Sustainability Practices:** LEED, BREEAM, Green Building Standards

EXPERIENCE

Civil Engineering Intern

University Project January 2026 - Present Orlando, FL

Participated in an intensive project-centered experience focused on structural integrity and safety compliance within various design projects alongside faculty guidance, enhancing practical application of civil engineering principles.

- Assisted in designing a multi-story structure, emphasizing compliance with safety regulations and maximizing durability.
- Developed foundation proposals using AutoCAD and Revit, translating theoretical knowledge into practical applications.
- Conducted site assessments to gain relevant data influencing design decisions, improving the overall quality of plans.
- Collaborated with peers during presentations, refining technical communication skills critical to success in engineering settings.
- Participated regularly in meetings, fostering open communication regarding project timelines and objectives with faculty mentors.
- Engaged with interdisciplinary teams, exploring various engineering disciplines and gaining broader perspectives.

Research Assistant

Academic Research September 2025 - December 2025 Orlando, FL

MY CAREER

- Civil Engineering Intern at University Project (6 Months)
- Research Assistant at Academic Research (3 Months)

Contributed significantly to groundbreaking research efforts at the university, gaining exposure to cutting-edge materials science contexts and sustainable practices pertinent to future engineering endeavors.

- Supported primary researchers in evaluating sustainable construction materials, leading to influential findings published in academic journals.
- Conducted performance experiments under different conditions, enhancing comprehension of material response to stress loads.
- Played a key role in preparing presentations summarizing impactful research outcomes, strengthening both presentation and discourse abilities.
- Collaborated closely with interdisciplinary teams, crafting thorough analyses aimed at advancing architectural methods and sustainable practices.
- Maintained precise documentation throughout experimental phases in line with university oversight requirements.
- Helped develop grant proposals advocating for investment in sustainable engineering initiatives catering to community needs.

Team Member

Hackathon Project March 2025 Orlando, FL

Worked collaboratively on an innovative energy management system that blended technical expertise in engineering and software development, exemplifying creative problem-solving and teamwork.

- Partnered effectively with team members in prototype design and deployment fostering an advanced user-friendly interface.
- Utilized programming languages such as Python and Java in project setup, demonstrating versatility in skill application.
- Facilitated user testing arrangements gathering insights which directed prototypes enhancement, portraying adaptability.
- Presented completed project components compellingly to industry professionals, receiving accolades for creativity and practicality.
- Engaged deeply in reflective learning sessions post-challenge, identifying both personal contributions and areas for growth.
- Networked extensively with attendees, gleaning valuable perspective on future career paths within engineering sectors.

LEADERSHIP & AWARDS

- Dean's List, University of Central Florida (2025)
- First Place, UCF Engineering Hackathon (2025)

CERTIFICATIONS

- AutoCAD Certified User 2026
- Fundamentals of Engineering (FE) Exam Candidate 2026

PROFESSIONAL AFFILIATIONS

- Member, UCF Civil Engineering Society
- Volunteer, Habitat for Humanity – Construction Team

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST