

# Martín Dorantes

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## Education

Northern Arizona University, Flagstaff, AZ

Graduating December 2021

B.S. Mechanical Engineering

Cumulative 3.33/4.0 GPA

Additional Skills: Python, VBA, HTML/CSS, MATLAB, SolidWorks, PlanGrid, Bluebeam Revu, Zapier

Leadership:

**Alpha Sigma Phi Fraternity** President | Flagstaff, AZ

January 2020 – December 2020

- Supervised an executive board of 10 members, ensuring key performance indicators of the fraternity were met.
- Responsible for leading and motivating 65 members of the chapter to achieve the goals of our organization.
- Represented the organization to the campus community and various senior-level university staff members.
- Served as the primary responder for crisis management within the fraternity.
- Created and chaired a successful philanthropic event raising +\$6,000 for Aware Awake Alive, a non-profit for alcohol abuse education.

Capstone Project:

**Human Powered Vehicle Capstone** Test Engineer, Technical Developer

January 2021 - Current

- Conduct R&D, Finite Element Analysis (FEA), ISO & Safety Analysis, and Test Development for a child-sized human-powered vehicle.
- Designed and developed dynamic, interactive, and user-friendly website portfolio for the team that ensured high traffic, page views, and optimization to individual portfolios.
- Automated and integrated turn signal and speedometer functions with Arduino UNO to promote driver safety.
- Identifying performance issues, error-handling processes, analyzing application performance, and implementing correct framework for higher reusability and maintainability.

[https://ceias.nau.edu/capstone/projects/ME/2021/21Spr06\\_ASMEHPVC/](https://ceias.nau.edu/capstone/projects/ME/2021/21Spr06_ASMEHPVC/)

## Internships

**U.S. Engineering Company** Preconstruction Engineer Intern | Denver, CO

May 2020 – August 2020

- Converted 10 project budgets and take-offs to client proposals ranging from \$1 million to \$180 million.
- Collaborated with senior engineers to examine electrical and mechanical designs to create significant cost-saving revisions allowing projects to move forward, while maintaining design intent.
- Programmed an application in VBA to automate company cloud storage, template extraction, and file organization for all future projects, minimizing downtime by 20%.
- Gathered approved required documents and information to support the successful completion of relevant construction activities and requirements.
- Well-versed in modern construction methods, processes, and equipment.

**The Whiting-Turner Contracting Company** Field Engineer Intern | Scottsdale, AZ

May 2019 – August 2019

- Collaborated with field engineers to delegate and supervise field activities on \$80-million commercial project.
- Examined mechanical, electrical, and plumbing drawings to ensure standards & deadlines were met.
- Created change notices for corrections on detail drawing and/or design errors that were not evident until building.
- Scheduled contractors, quality control, field engineering (basic surveying and layout), and reviewed detailed blueprints of 29 different unit floor plans.

## Other Relevant Work Experience

**Digital Marketing - Freelance**

September 2020 -Current

- Assess impact of current market tracking system processes and how they impact client needs.
- Developing, strategizing, and executing search marketing (SEO and PPC) and other online media initiatives to display advertising and retargeting campaigns (CPM).
- Lead tracking and audience research to improve media planning and ad buying processes.