MANUEL MARTINEZ

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SUMMARY

Recent graduate with experience in computer programming, website development, and systems engineering. Seeking opportunities in software engineering to leverage analytical work solutions through dynamic technical approaches and active team collaboration.

EDUCATION AND CERTIFICATIONS

- B.S. in Aerospace Engineering, Virginia Tech – Blacksburg, VA, May 2020
- IT Automation with Python – Professional course and certificate by Google

SKILLS

- Languages: Python, C++, MATLAB, Bash/Shell, HTML, CSS, JavaScript, SQL
- Cloud and Version Control: AWS, Google Cloud Platform, and Git/GitHub
- Machine Learning: TensorFlow

- Bilingual in English and Spanish
- Excellent written and oral communication
- Strong analytical and quantitative skills

TECHNICAL PROJECTS

Business Website Developer   *Jan – Mar, 2021*
Tres Leches House LLC | Manassas, VA
- Designed original website UI using HTML, CSS, and JavaScript and launched business' first website to accelerate business growth
- Implemented Git for version control of website code to prepare for future website updates
- Proactively liaised between business owners to photograph original website content and implement effective website content such as store locations information and ordering methods

Propeller Design Project   *Jan – May, 2019*
Propellers and Turbines Course | Blacksburg, VA
- Learned Linux OS and used Bash and Python to create computational fluid dynamics (CFD) simulations in OpenFOAM and ParaView software for designed propeller
- Tested 3D printed propeller in open jet wind tunnel for performance analysis and compared testing with CFD simulation predictions

Rover Design Team Member   *Aug 2019 – May 2020*
Senior Design NASA Big Idea Competition | Blacksburg, VA
- Designed a laser-powered lunar rover mission with a team of 11 members as final undergrad project
- Led a sub-team of 3 to complete research and rigorous trade studies for the design and optimization of rover hardware including wheels and chassis
- Created CAD models and assembled rover prototype

WORK EXPERIENCE

Residential Advisor   *Jan 2018 – May 2020*
Virginia Tech Housing and Residence Life | Blacksburg, VA
- Programmed an automated monthly scheduler in Python that generates monthly schedule for 30 RAs
- Mentored 30 first-year students every academic year and maintained safe living standards for 1,000 residents
- Coordinated student outreach events using Excel to plan budgets and marketing

Office Administrative Assistant   *May – Aug, 2017, 2019*
G.A.R. Contractors LLC | Manassas, VA
- Scheduled an average of 35 jobs daily in Virginia, Washington DC, and Maryland
- Coordinated job requests received daily from over 40 active construction properties
- Monitored communication with employees, subcontractors, and property managers to ensure timely completion of jobs using Excel and QuickBooks

ACTIVITIES

Virginia Tech *AIAA* Member   *Aug 2018 – May 2020*
American Institute of Aeronautics and Astronautics club | Blacksburg, VA
- Actively participate in Virginia Tech's AIAA chapter through meeting planning and recruitment

News Staff Writer   *Aug 2017 – Dec 2018*
The Collegiate Times | Blacksburg, VA
- Effectively reported accountable news stories for Virginia Tech and the Blacksburg region
- Facilitated general news meetings aimed at organizing the news's column