Claudio Orezza

Product Development Engineer

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Education

Texas A&M University, *College Station, TX* *May 2022*

- Bachelor of Science in Mechanical Engineering*, Magna cum Laude* [GPA: 3.87]

Professional Experience

Andersen Windows and Doors, *Bayport, MN*

400s Ongoing Product Development Engineer (Associate Engineer) *August 2022 – September 2023*

- Managed product, part, and procedure design projects, developing knowledge in window design, project management, and industry standards.
- Designed a novel window packaging solution utilizing SolidWorks and Inventor tools, in addition to managing the project through PDP Gate 3 and 4, which includes performing activities like FMEA, THA, legal reviews, business case preparation, design validation testing, documentation vaulting through a PLM process, supplier PPAP and assessing manufacturing, supply chain, IT and operations impacts through an MPT.
- Supported campus relations team with interviewing, onboarding, and engaging with new universities.

100s Ongoing Product Development Engineer (Associate Engineer) *September 2023 – Present*

- Led and managed project to implement a new packaging solution across plants in MN, TX, and AZ, with estimated yearly saving of $30,000 dollars.

Shell – Texas A&M University, *College Station, TX*

Brakes & Steering Project Manager *August 2021 – May 2022*

- Managed a group of engineers tasked with designing and manufacturing steering and brake components for an eco-efficient vehicle, while employing an agile project management work structure.
- Applied product development tools including, DMADV, WBS, QFD, FMEA, TRIZ, and IIAE matrices.
- Developed a new steering geometry, parking brake, and pedal system, resulting in an improved turning radius, suspension stability, braking force, and vehicle ergonomics.

Academic Success Center*, College Station, TX*

Supervisor Assistant and Tutor *August 2019 – May 2022*

- Mentored more than 400 college students on subjects including calculus, physics, structural analysis, solid mechanics, SolidWorks, and Python.
- Lead a project to reach out to new potential clients, which resulted in more than 60,000 contacts and increased the program's daily student intake.

ATOM - Briko Robotics, *San Luis Potosi, Mexico*

Programming Leader *May 2019 – July 2019*

- Developed 7 games for an online learning platform utilizing JavaScript, HTML and CSS, which could be potentially played by 7 million low-income students in the first free STEM program in Mexico.

Patents

USPTO Patent Pending: 62571296 *October 2017*

- Device for the transportation, support, and the continuous and simultaneous orientation of longitudinal elements aiming to replace robots worth more than $25,000.

Certifications

- Certified SOLIDWORKS Professional in Mechanical Design
- Certified SOLIDWORKS Professional Advanced Drawing Tools, Surfacing, Sheet Metal & Weldments
- Six Sigma Green Belt (CSSGB) Certification
- Google Project Management Certificate

Academic Involvement

Texas A&M University Society of Automotive Engineers Baja Design Team

Rear Wheel-Packaging Engineer *May 2020 – May 2021*

- Designed rear suspension components of an off-road vehicle.
- Utilized manufacturing processes including 3D printing, mill, lathe, welder, grinder, CNC, etc.
- Applied knowledge and understanding of Fusion 360 generative design, finite element analysis, surfacing, solid mechanics, statistical tolerance analysis, and manufacturing processes.
- Optimized uprights and wheel hubs so they were up to two times lighter than past years' models, had a simulated FOS of 2, and were never broken or damaged during competition.

Languages

- Fluent English and Spanish speaker, B2 level in German and A2 level in French.

Personal Interests

- Certified scuba diver, pickleball enthusiast, F1 fan, oil painter and music creator.