Christian Tello

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Education

COLORADO SCHOOL OF MINES

B.S. Mechanical Engineering - Emphasis: Additive Manufacturing   **MAY 2020**

Experience

PROJECT MANAGER   **SEPTEMBER 2021 - PRESENT**
3D Systems, Application Innovation Group   Littleton, CO
· Manage new product development for our medical, aerospace, and industrial sectors through design iteration, regulatory compliance, production readiness, and contract manufacturing including scope, schedule, and budget
· Planning new material roadmap, parameter development, and material validations for the internal research and development group to achieve customer required technical readiness levels (TRLs).
· Responsible for customer site implementation of additive technologies and materials across 3D Systems' plastics and metals portfolio.
· Proposal management for government agencies including submittal, trade compliance, and progress tracking
· Pipeline development including Hypersonics, Space, Aviation, and Semiconductor segments.

PRODUCTION COORDINATOR   **MARCH 2021 - SEPTEMBER 2021**
3D Systems, Advanced Manufacturing   Littleton, CO
· Work cross functionally with engineering, manufacturing, and accounting teams to provide value to customers of the healthcare business unit by communicating and allocating resources to keep production on schedule.
· Review contracts & payment orders, ensuring all required specifications are in line with the documentation in our quality management system.

ADDITIVE MANUFACTURING DESIGN ENGINEER   **MAY 2020 - DECEMBER 2020**
Emerson Automation Solutions   Marshalltown, IA
· Application development resulting in the release to production of 40+ unique components across 8 product lines (including ideation, development to achieve dimensional conformance, and design for machining iterations).
· Conduct topology optimization study of cylindrical additive part families to reduce scan time and mass of components. Resulted in a net mass reduction of 28%, and reduced scan time of 6% per cylindrical component.
· Designed supports and planned machining strategy to leverage additive as a replacement for a titanium castings in such a way that lead times were reduced by 66% for a flagship product line with a lower total cost.

RESEARCH ASSISTANT   **SEPTEMBER 2019 - JANUARY 2020**
The ADAPT(SM) Consortium   Golden, CO
· Mechanical testing (compression) of Additively Manufactured (L-PBF) Inconel 718 samples through axial top-loading and digital image correlation
· Implemented a Feedforward Neural Network to try to understand the "why" behind the variations in compressive strength and material characteristics (porosity) across various locations on the build plate
· Created a predictive model for mechanical properties based on prior database

MACHINE SHOP TEACHING ASSISTANT   **JANUARY 2019 - FEBRUARY 2020**
Colorado School of Mines   Golden, CO
· Taught students how GD&T tied into the design process for their projects and helped them achieve success
· Guided students in design decisions for CAD and CAM processes

MANUFACTURING ENGINEER INTERN   **MAY 2019 - AUGUST 2019**
Niagara Bottling LLC.   Denver, CO
· Developed & implemented work instructions and standard operating procedures for technician training
· Compiled reports and best practices for the analysis of plastic injection molding scrap rates

Software & Skills

Software: SolidWorks, Siemens NX, 3DXpert, Altair Inspire, MatLab, LabView, Arduino, Smartsheet, JIRA
Manufacturing: CAM, CNC Mill, Manual Lathe, Manual Mill, GD&T (ASME Y14.5 2009)
Additive: Plastic (SLS, FDM, SLA, DLP), Metal (L-PBF)
Programming: Statistical Data Analysis, Micro Controllers, Machine Learning (Python; Keras, TensorFlow)
Other: US Citizen, Bilingual (Fluent English/Fluent Spanish), ISO13485, AS9100, ISO9001