

Marcos Robles, EIT, PMP

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MECHANICAL ENGINEER \ TECHNICAL PROGRAM MANAGER

- 7+ years of experience working on agile teams delivering new hardware / processes under tight deadlines and with limited resources
- Drove product life cycle development across 10+ teams & 100+ stakeholders of new electric vehicle featured in Forbes & Business Insider
- Developed manufacturing process for consumer product assembly worth \$500K+ in ED&T
- Hands on leadership, agile problem solving, engaging communication, detail oriented organization, openly collaborate to achieve vision

INTERESTS

- Summit hikes, secret ramen spots, funky jam sessions, bouldering (staring blankly at) V5s, jiu-jitsu flow rolling

PROFESSIONAL EXPERIENCE

02/18 - 01/20

CANOO | Studio Engineering (Mechanical Engineering, Technical Program Manager)

- Designed & prototyped 50+ mechanical parts with CATIA for product development studies increasing user satisfaction +30%
- Drove product development of 10+ teams/vendors & 100+ stakeholders for new electric vehicle architecture utilizing JIRA
- Analyzed & gathered 300+ competitor metrics/attributes to create the #1 interior-volume-to-footprint ratio in market
- Managed 50+ resources delivering lifecycle milestones ahead of schedule & under budget with BETA vehicles in under 2 years
- Designed & optimized 10+ injection-molded parts for assembly, GD&T, & manufacturing saving 25% in weight & cost
- Lead & directed 50+ cross-functional meetings with design & engineering teams resolving technical issues estimated at \$1M+



07/15 - 02/18

FARADAY FUTURE | Senior Studio Engineer (Mechanical Engineering, Technical Program Manager)

- Managed & integrated 25+ ADAS components using ANSYS SPEOS creating 100+ technical development simulations
- Negotiated & lead engineering stack-up across 5+ teams improving human factors & safety over 30mm using JIRA
- Designed & tested mirror replacement systems based on 50+ user studies and 25+ objectives requiring certification
- Directed & managed 50+ engineering & design resources & scheduling on product development covering 300+ parts
- Performed 100+ technical systems studies utilizing CATIA, fast-tracking lifecycle development & federal compliance
- Developed & analyzed 10+ vehicle architectures balancing 50+ product attributes and technical systems relationships



03/14 - 06/15

JABIL | Engineering Intern (Manufacturing Engineer)

- Lead technical development of manufacturing process for consumer product assembly worth \$500K+ in ED&T
- Designed flexible manufacturing cells with automated 6-axis robot, safety redundancy, 3 tool changers, & pneumatic fixtures
- Reduced & streamlined assembly time 45% with an adaptive, ANSI/ESD S20.20 compliant, 1500 sq. ft manufacturing space
- Designed 3 ultrasonic welding stations with safety for consumer product assembly of 100+ units/day
- Performed & documented design of experiments (DOE) which reduced scrap rate 75% and decreased cycle times 50%
- Documented & archived lessons learned & final technical project reports following ISO 9001 for process improvements

JABIL

05/14 - 08/14

MCCORMICK STEVENSON | Engineering Associate (Mechanical Design Engineer)

- Designed & prototyped injection molded military training artillery fuze with tight scheduling and budget constraints
- Performed non-linear finite element analysis (FEA) for product development & optimized design
- Drafted drawings using Creo Parametric & SolidWorks following ASME Y14.5 GD&T and change management
- Implemented library of 100+ standard MIL & NAS hardware with configuration management for process improvement
- Communicated with customers on statements of work (SOW), product development, deliverables & scheduling



07/13 - 03/14

SOUTHERN MANUFACTURING TECHNOLOGIES | CNC Operator (Machinist)

- Manufactured 150+ parts/day for military and aerospace using 5-axis CNC mills and CNC lathes ahead of scheduling
- Inspected parts following ASME Y14.5 GD&T and quality control processes using calipers, micrometers, & gauges
- Measured attribute variance of 10+ types of product using statistical process control (SPC)
- Monitored & controlled part variance following ANSI, MIL-STD, & customer standards with 0 scrap
- Documented product quality attributes, performance metrics, & features following ISO 9001



Experience continues @ www.linkedin.com/in/marcosarobles

TOOLS

- CATIA 3DExperience (CAD)
- SolidWorks (CAD)
- Creo Parametric (CAD)
- ANSYS, Mechanical (FEA)
- ANSYS, Fluent (CFD)
- Jira (project management)
- Windchill & Enovia (PLM)

CERTIFICATIONS

- **Project Management Professional, PMP**
Project Management Institute
July, 2020
- **Engineer in Training, EIT**
Calif. Board for Professional Engineers
December, 2015

EDUCATION

BSME Mechanical Engineering
University of South Florida
2015



ASME Chairman, part design for Formula SAE, chassis design for human-powered vehicle.