**Camilo Tobacia**

**(310) 386-2225**

[**camilo.tobacia@gmail.com**](mailto:camilo.tobacia@gmail.com)

**Torrance, CA 90501**

# PROFESSIONAL SUMMARY

Aerospace Engineer with 10 years of Engineering & Production Management experience with emphasis in manufacturing development and performance steering. Proven record of achievements in multiple disciplines bringing advanced technology developments into production in fast paced manufacturing environment. Under my leadership accountability of teams of 35+ members, I have been able to achieve challenging company objectives under tight deadlines, all while focusing in safety, innovation, quality, efficiency and reliability. In addition, I have experienced working in multiple countries making use of my proficiency in language abilities in both English and Spanish which has enabled me to open different avenues for communicating effectively towards a common goal across multiple cultures | Cert: Lean Six Sigma Green Belt

# PROFESSIONAL EXPERIENCE

**SpaceX – Hawthorne, California (January 2014 – Present)**

***Propulsion Components Production Supervisor (Dragon & Falcon Valves)*** *(February 2016 – Present)*

* Managed 20 technicians, 2 leads, 1 Coordinator and 1 expediter;
* Owner for shop resources that included precision flow bench assembly, high pressure testing and electrical/harness testing
* Managed production schedule and forecast for over 400 Components/Sub-Assemblies per vehicle
* Managed CAPX Budget of $1M
* Design and Implemented Shop Layouts, including capacity studies on resources and personnel. Sourced and executed projects for reaching production rate –managed CAPX Budget of $1M

# Selected Achievements:

* + Completed Lean Six Sigma Green Belt Project for improvement on Polishing Operations for critical valve components; 30% decrease in polishing labor represented $50K/year in savings
  + Eliminated 120hrs/week of waste related to motion, over-processing by implementing a detailed shop flow optimization, introducing improved manufacturing processes and tooling which ultimately resulted in savings of

$900K/year

* + Led production team through strategic completion of Prop Components for Crew Dragon DEMO 1 that met NASA milestone deadline and award worth $51M
  + Automation of Coil Winding for solenoid valves; Increased coil winding production by a factor of 5 and reduced 80% of quality issues caused during manual winding
  + Implementation if JIRA Service Desk (Components Manufacturing) for tracking and implementing solutions in the shop; As a result, over 200 Improvement Tickets were evaluated and completed
  + Led Safety Program within High Pressure Testing Area and proactively solved over 80 Safety Tickets; reached 700+ days w/out OSHA recordable accidents

***Structures Production Supervisor (Mechanisms & Sub-Assemblies)*** *(November 2014 – February 2016)*

* Managed team of 13 technicians, 4 leads and 1 expediter
* Managed production schedule and forecast for over 600 Sub-Assemblies per vehicle
* Led production strategy to allocate resources to meet NASA deadlines for DM1 Docking Adapter and complete contract goals
* Executed changes utilizing Lean/Six Sigma tools that resulted in 5S standardization as well as improved part flow, tool control and overall processing of parts in the shop
* Drive production builds efficiently while maintaining high quality standards
* Lean Six Sigma Green Belt Certified

# Selected Achievements:

* + Dragon Sub-Assemblies efficiency improved from 46% to 60%
  + Dragon Cargo Racks efficiency improved from 30% to 48%; Cost of build from D7 to D9 resulted in a $700K cost reduction per vehicle
  + Dragon Mechanisms efficiency improved from 56% to 72%
  + 75% decrease in Quality Workmanship Issues for Mechanisms through 5Why and root-cause analysis implementation

***Manufacturing Engineer (Mechanisms & Sub-Assemblies)*** *(January 2014 – November 2014)*

* Engineer responsible for supporting manufacturing of 600+ sub-assemblies for Dragon Spacecraft
* Introduced the use of rivetless nutplates on ECS ducts reducing 40% of riveting as well as part scrapping due to cracking
* Implemented weekly report and identified *Top Time Consuming Ops*; executed 50+ continuous improvement actions
* Led structural analysis on Battery Boxes that resulted in adjusting hole tolerance from +/1 .001” to +/-.003”; Processing

reduced from 35hrs to 7hrs per battery box and completely eliminated repeat issues

# Selected Achievements:

* + Introduced Rivetless Nuplates and material change on Environmental Control Systems that resulted in 80% issue reduction and 54% of Labor Reduction; ultimately saving $44K per vehicle

# Business Process Management Consultant – Texas| Hawaii | Bogotá, COL (July 2012 – November 2013)

## Process Engineering Consultant

* Engineering Lead for improvement and development project for Seismic Drilling Exploration equipment for Oil & Gas
* Audited existing drilling techniques on site, devised improvement plan and redesigned system in under 6 months
* Established new Tracto-Punzón Torke hydraulic drilling system. Increased personnel safety, performance and decreased physical demand; improved drilling rate from 1 hole a day at 12ft. to 4 holes a day at 40ft.
* Streamlined Inventory Control for apparel company using Kanban Methods resulting in savings of $2,600 per month
* Developed Design strategy, increased sales, productivity and establishing positive brand recognition

# Selected Achievements:

* + Developed and Implemented hydraulic driller for seismic explorations for the Colombian Oil & Gas industry in alluvial regions; improved drilling rate from 1 hole a day at 12ft. to 4 holes a day at 40ft.

# Anheuser-Busch Inbev – Houston, Texas (March 2011 – July 2012)

## Business Process Manager

* Managed team of 30+ employees that included Union operators, quality inspectors, mechanics and electricians
* Production leader responsible for improving line efficiency from 73% to 80%, increasing yields by 80,000 cases/month
* Led Maintenance Overhauls on heavy duty machinery including Filler, Pasteurizer, Packers, Palletizers, Conveyors belts
* Managed and maintained maintenance plans with annual budget of $350,000 per year
* Analyzed accident reports, generated safety plans and corrected safety gaps, resulting in 75% reduction of LTI in 20
* Managed production of 7,200 barrels per day, while directing union employees to achieve safety and operational goals
* Monitored a $1.2 million labor budget and other cost centers staying within fiscal goals for 2011 year
* Supervised 25+ operators/technicians and led plant optimization efforts to improve Key Performance Indicators

# Selected Achievements:

* + Developed new conveyor line installation aimed at reducing product loss by 90% by improving product line pressure

# PepsiCo-Pepsi Beverages Company – Hayward, California (March 2009 – March 2011)

## Production Supervisor (Production, Maintenance and Warehouse)

* Managed team of 25 employees that included operators, quality inspectors, and mechanics
* Directed production plan for 25,000 cases per shift for 2 Bottle Lines, 1 Can Line and 1 Bag-in-Box Line
* Conducted shift start-up meetings and directed personnel to achieve standards in safety, line efficiency and quality
* Certified on Lean Manufacturing practices, 5S, Team Execution and Standard Operating Procedures (SOP)
* Selected out of 18 candidates for “Best of the West” Award in recognition of Effective Project Development

# Schlumberger – Prudhoe Bay, Alaska (June 2007 – August 2007)

## Engineering Intern: Wire line, Drilling & Measurement

**EDUCATION**

**Bachelors of Science in Aerospace Engineering** | Texas A&M University, College Station, Texas | Graduated 2008

**Distinguished Student Award** Outstanding Academic Achievement | Texas A&M College of Engineering 2007, 2008

# PERSONAL INTERESTS

Guitarist & Songwriting | Music Recording & Production | Soccer Athlete | Photography | Graphic Design

**Lean, Engineering, Solid Works/NX, Six Sigma Green Belt, SketchUp, Process Optimization, TeamCenter, 5S, Manager, Leadership, Innovative, Project Manager**