





Federico Scussat

Lean Manufacturing Engineer

+39 3336823963 federico.scussat@gmail.com Carovigno (BR) - 72012 /fedescussat

Madrelingua 
Professional 

EDUCATION:



Politecnico
di Torino

Master Degree: Aerospace Engineering spec. Propulsion System

Torino

Grade 105/110

Thesis: Preliminary design of a UAV for photogrammetry Application
Modeling and Aerodynamic (inviscous)/Performance Analysis
using both Solidworks and flow5 (Tool for Aerodynamic/Perf. Analysis)

Bachelor Degree: Aerospace Engineering

Torino

Grade 100/110

Thesis: Development of the electronic unit for the implementation of hydraulic test bench



HSD Industrial Engineering: Electronics & Telecomunications

Brindisi

Grade 100/100

PROFESSIONAL SUMMARY:

Dynamic Aerospace engineer with expertise in propulsion system and manufacturing processes for aerospace and precision machining industries..

Experienced in CNC programming, GD&T and technical drawing, process optimization/industrialization, supplier management and quality assurance.

Strong project management, problem solving skills and knowledgeable in aerospace quality system and manufacturing processes, are the driver which led different projects of optimizations and industrialization in aerospace and gearboxes manufacturing. Excellent communication and team leadership abilities gained in people management, both in shopfloor and design for manufacturing environment.

WORKING EXPERIENCES:



Manufacturing engineer

Lecce

01/2022 – Current

- Managed CNC programming and program test activities for 5-axis machines, including writing and reading CNC programs, toolpath verification and cutting parameters optimization.
- Oversaw activities on automatic lines/machines (lathe and milling machines, cylindrical grinding machines, profile and generating grinding machines, broaching machines, hobbing machines) for manufacturing components for planetary gearboxes, helical in line gearboxes and bevel helical gearboxes, optimizing production processes, improve quality and time reduction.
- Management of the suppliers for the development of fixtures and tools to support the production process.
- Management of Tools/Perishable (tool park over 300 tools):
 - Contact with the main tools suppliers (Kennametal, Iscar, Seco, Sandvik, Emuge Franken, Walter) for RFQ and Order management
 - Contact with the suppliers for tools and cutting conditions optimization (grade, micro/macro geometry, material).
 - Issue of documentation to support machine set-up activities
 - Management of operators for tools presetting operations
 - Stock/inventory management for the perishable component
- Led implementation of Industry 4.0 initiatives for new Lecce plants investments, improving production efficiency and quality.
- Review of Plant/Shopfloor Layout to improve production flow according to Lean Process mapping techniques.
- Definitions of new investments (CNC machines and softwares) and issue of supply specifications
- Identifications and fixing of process critical issues through Six Sigma methodology, resulting in improved process reliability and cost savings (DMAIC)

- Managed of the industrialization process of bracket, components for LEAP 1AC/1B engine.
 - Definition of the manufacturing process, cooperating with the internal stakeholder
 - Definition and issue of supply specification for the 4-Axis machine for the finishing process
 - Cooperate with the suppliers of the CAM software in the post processor definition.
 - Cooperate with the suppliers for the fixtures and tools development
- Managed the industrialization process for the production of Special Alloy components(Baffle; Hastelloy – HS188) for the LEAP 1AC/1B programs:
 - Supplier management for the identifications and development of automatic coil feeded line for the cold forming of the components
 - Internal technical office management for the progressive die Design (CAD and FEM Analysis), for the cold forming of the components
 - Management of the outsources resources for the tools (progressive die) manufacturing
 - Quality support, hand-in hand with the Customer (Avio Polska) to fulfill all the quality requirements.
- Issue of technical documentation to support the production process, also special processes (Heat Treatment, TIG Welding, EDM e LPF) according to the aerospace quality production system requirements
- Managed of the Inlet Screen Project (GE Catalyst Engine component):
 - Prototyping of the product
 - Product Industrialization
 - Managed of the internal/external resources for the production activities
 - Quality support, hand-in hand with the Customer (Avio Czeck) to fulfill all the quality requirements.
- Cooperate with the issue of the technical working cycle and quotes for the Exhaust Case and Exhaust Duct and Cowl(GE Catalyst Components)
- Activities of Delegate product release verification for the customer(GE AvioAero), supporting quality department
- Supporting quality department in the issue of FAI documentation for the new manufacturing process qualification.

Intership

09/2013 – 11/2014

Torino

- Combustion deposit formation in new generation of fuel injection system devices

TRAINING AND CERTIFICATIONS:

 HEXAGON	VERO SOLUTIONS - VISI Modeling & VISI design CAD explicit software	May 2018
 HEXAGON	HEXAGON - FTI Basic formability Training on the material formability for cold forming applications.	March 2016
 GE Aviation	GE AVIATION - Quality foundation training Training on quality handling in the aerospace industry	May 2019
 STAMPACK Xpress	Stampack Xpress FEM Analysis software for Sheet Metal forming applications	April 2020
 CNC <small>CORSO BASE DI PROGRAMMAZIONE Per Siemens e Fanuc</small>	Corso base programmazione CNC CNC programming training for Siemens 840D sl	February 2022
 SW <small>Technology People</small>	SW Machines - Siemens 840D sl CNC programming training for Siemens 840D sl	October 2022
 SIEMENS <small>Ingenium for life</small>	SIEMENS - NX CAD Parametric software	March 2023
	CROSSNOVA (Lean six sigma institute) - Lean Six sigma Green Belt DMAIC Project: Optimization of the assembly process of mechanical components assy	August 2023
	SANDVIK Coromat – Metal Cutting Technology Cutting tools applications, choosing and parameters	September 2023