Vălean Petru-Cristian

Process Engineer

• Timis Romania. /

Personal Details:

PROFILE

Highly driven engineering professional with extensive experience in managing production processes, and leading production team members to ensure safe continuous operation. Results-driven, highly motivated individual with strong hands-on technical aptitude and record of excellence in areas of tool development, equipment troubleshooting, modification, parts re-design and fixture to improve throughput, reliability, yield, and cost.

AREAS OF EXPERTISE

- Process Engineering & Development
- Operations Administration
- Product Qualifications & Validations
- Team Leadership & Mentoring
- Skill Building
- Quality Inspection & Control
- Thermal Spraying
- Problem Solving
- Extensive Research Work

EDUCATION

PHD Student 2016-present
Diploma Engineer (equalling to Masters) in Materials technology, polymeric materials, parts of machine, 2016
University "Politehnica" of Timisoara

Bachelor Degree – Mechanical Engineer, 2014
University "Politehnica" of Timisoara

Baccalaureate, 12 classes, 2010
National College "Ana Aslan" Timisoara

PROFESSIONAL EXPERIENCE

Industrial Engineer 2021 to present
Filtration Group, Timisoara Romania

Head of Thermal Spraying Department / Industrial Engineer 2017 to 2021
Karl Schumacher GmbH, Bochum Germany

Manage entire operational aspects of the department, which included handling production tasks, coordinating duties of teams, and verifying finished parts. Ensure to complete assign work within given schedules and according to customer requirements. Focus on making continuous improvements within production processes by researching new ways. Conduct laboratory samples testing for every process at predetermined times. Draft working parameters for every unique or new part.

- *Improved skills of staff members through training, mentoring, and performance appraisals.*
- *Served as a liaison between mechanical processing and thermal spraying department.*
- *Increased overall productivity within the department by introducing a positive environment*
- *Created and managed all aspects of a Laser Spraying process, including ordering the necessary materials and resolving problems that appear.*
- *Developed the re-melting process of NiCrBSi coatings using high frequency currents.*

Leading Specialist 2016 to 2017
Karl Schumacher GmbH, Bochum Germany

Conducted both practically and theoretically research work on the thermal spraying processes to identify potential problems that occur on the production line.

- *Optimized the production processes by finding and eliminating downtime.*

Practice Work 2014
Westfälische Hochschule, Gelsenkirchen, Germany
Tasked with investigating and characterizing materials whilst performing extensive research.

Mechanical Engineer 2013 - 2014
SIPA Engineering Romania S.R.L., Timișoara, Romania

Designed, developed, approved, and installed new parts for bottle filling machines. Monitored the performance of mechanical components to identify and mitigate faults. Maintained and modified parts to ensure their utmost efficiency and reliability.

- *Gained extensive knowledge of various engineering methods.*

ADDITIONAL EXPERIENCE

Internship | Karl Schumacher company, Essen/Bochum, Germany | June – Oct 2015

Internship | SIPA Engineering Romania S.R.L., Timișoara, Romania | June – Aug 2013

Internship | Huro, Supermold, Timisoara, Romania| 2011 - 2012

Languages

Romanian

English - B2

German - B2

Affiliations

Member on Students League at the Faculty of Mechanical Engineering

Member of the team organizing at events: MecArt, ZTS Implication at "Cup Antidrug", Surduc 2010

Technical Skills

SolidWorks, Unigraphics, Solidedge, Catia, Microsoft Office

Certification & Licensees

Certificate: DVS-EWF Thermal Spraying Specialist (27.10.2017)

Course: SLV Munich - ETSS training (Oct.2017)

DOSB License (24.05.2017) (voleyball trainer)

Awards

2nd place in the competition of student professional machine parts "Nicolae S. Gheorghiu" 2013

1st place at Scientific Session of communications for students " Science and Engineering Materials " 2013