

Vitalijs Gusevs

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Education

LEEDS UNIVERSITY

Leeds, UK

Bachelor of Biomedical Engineering, BEng

2015-2018

Bachelor Thesis - Development of a novel, low-cost, pneumatic continuum robot concept with a range of applications, including endoscopy.

RIGA STATE 1ST GYMNASIUM

Riga, Latvia 2015

Experience

AVIATEST

Riga, Latvia

Program manager

June 2021 –

- Proposed, developed, implemented, and automated a new client-based mathematical model for commercial offer calculation which led into acquiring orders from EU and Middle East aerospace companies over 1m revenue per year within the range of “rotorcraft testing project umbrella”. In process of adjusting the mathematical model on other programs;
- Restructured, automated project management processes, and introduced new documentation systems that decreased production time and increased quality and profit margin. New innovations were implemented not only within my projects but also as the companies’ rules;
- Orchestrated a waterfall project team of specialists from different departments within two programs: manufacturing of turnkey-based test bench manufacturing and in-house static, fatigue and full-scale transmission testing;
- Handled resources and documentation of the selected project umbrella. Found and proposed technical and non-technical solutions and satisfying customer needs within the project scope and constraints and led customer driven product development;
- Created and implemented a continuous-improvement system procedures and practices which has radically changed the safety and manufacturing culture of the company.

Lead Data Acquisition and Control Engineer/ Lead Test Engineer

April 2020 –

- Led a broad range of test operations including aerospace structure static and fatigue tests, full-scale transmission dynamic tests, vibration tests, thermal tests, etc. both from the control room and in the field;
- Prepared and submitted test reports and performed the requested post-test data analysis, preparing detailed test reports for the customer in an approved format;
- Helped the customers to ensure that selected test program can be done within boundaries of the testing equipment and laboratories. Adjusted the test program and test requirements within specified limit of both customer and technical team;
- Partnered with vendors to select and procure components, finding the best price/quality ratio. Handled subcontractors on the technical side of the project;
- Designed and provided solutions for aerospace testing in various fields such as Safety, Data Acquisition, Control, Hydraulics, Mechanics etc.

Data Acquisition and Control Engineer

Sept.2019 – April 2020

- Developed the turnkey software and engineering solutions for aerospace test benches depending on the requirements of the customer;
- Created bespoke control software for aerospace test rigs using the LabVIEW development system, both HMI and back-end, for internal use and for use at the customer facilities on a turnkey basis;

SELF-EMPLOYED

Remote

Mechanical Design Engineer

June 2017 – Sept. 2019

- Created mechanical design engineering solutions using Solidworks for aerospace testing company as a freelance mechanical design engineer regarding technical requirements of the customer;
- Reverse engineered different devices, castings, frames and parts, improved and reduced manufacturing expenses;
- Development and design review of different parts and devices for wide range of applications as well as support on further manufacturing.

MEANDR

Riga, Latvia

Junior Electrical Engineer

June 2016 – Sept. 2016

- Soldering components on printed circuit boards according to electrical schemes and drawings;
- Assembly and disassembly of the devices. Prepared electrical schematics and drawings of the devices.

Technical skills

Technical: Solidworks, Python, LabVIEW, MatLAB, MS Office, Asana (Trello, Jira etc.), Tableau, Miro, DewesoftX.

Language skills

Language: Russian (Native or bilingual proficiency) , Latvian (Native or bilingual proficiency) , English (Full working proficiency) , French (Limited working proficiency).