



Neculai-Eduard BUMBU

Personal

Name
Neculai-Eduard BUMBU

Address
[Redacted]

Phone number
[Redacted]

Email
[Redacted]

Date of birth
[Redacted]

Gender
Male

Languages

Romanian	Native
English	C1
French	A1

Work experience

Senior Mechanical Engineer Apr 2023 - Present
Vitesco Technologies, Iași

- I perform analysis and interpretation related to the clearance and creepage topics in a dedicated software- Nextra
- I support the process of optimization of existing design in the R&D phase by various techniques and offer assistance in order to reach a better cost, quality and manufacturing
- I am responsible for designing the components for Nextra library with CAD software- Creo
- I lead the discussions to improve the methods and the processes which I work with
- Testing new software - AutoCrear
- I am responsible with the integration and mentoring the new members of the team
- I facilitate the communication process with internal and external customers and suppliers

Mechanical Engineer Jul 2020 - Apr 2023
Vitesco Technologies, Iași

- I performed analysis related to the clearance and creepage topics in a dedicated software- Nextra
- I offered support in interpretation of insulation topics related to specifics cases
- I contributed to improve the methods and the processes which I work with
- I contributed to the communication process with internal and external customers and suppliers

Junior Mechanical Engineer Sep 2019 - Jul 2020
Vitesco Technologies, Iași

- I performed analysis and interpretation related to the clearance and creepage topics in a dedicated software- Nextra
- I contributed to improve the methods and the processes which I work with
- I contributed to the communication process with internal customers and suppliers

Traineeship Jun 2019 - Jul 2019
Université de Lille, Faculté des Sciences et Technologies, Département de Physique, Lille

With the help of the two-step (desorption /ionization) laser mass spectrometry (L2MS) technique we studied and analyzed the surface chemical composition of soot particles by plane engine for different fuels- Jet A1, AtJ and a mixt of both of this (70% AtJ, 30% Jet A1). Then, with the chemical formulas that we obtained we did a statistical analysis using advanced multivariate tool- PCA (Principal Component Analysis) to see which of those fuels are

Mechanical Engineer Jun 2018 - May 2019
SC TEAM INDUSTRIES ROMANIA

My main responsibility was to provide drawings for production according to customers desire. The software I had worked with was Inventor. Mostly, I had worked with sheet metal parts

Intership Mar 2017 - Mar 2017
SC Biocomp SRL, Iași

It was my first interaction with work in a manufactory and computer aided design in my area of studying. They was at that time in the stage when they have changed them 2D drawings into a dedicated CAD software- SolidWorks-
I've learnt to work with Solidworks in generative sheet metal. I worked in manufactory too, meeting working procedures like: threading, bending, embossing, assembly etc.

06.06.2024 *[Signature]*

Education and Qualifications

PhD Student - Industrial Engineering

Oct 2020 - Present

"Gheorghe Asachi" Technical University of Iasi, Faculty of Machine Manufacturing and Ind. Management, Iași

Thesis title: Contributions regarding the use of electric drive power in the monitoring and diagnosis of production systems

Master's degree - Computer aided design and manufacturing

Oct 2018 - Jul 2020

"Gheorghe Asachi" Technical University of Iasi, Faculty of Machine Manufacturing and Ind. Management, Iași

Thesis title: Chemical characterization of engine soot particles and analogues by mass spectrometry after laser desorption and laser ionization

Bachelor's degree - Mechanical Engineering

Oct 2014 - Jul 2018

"Gheorghe Asachi" Technical University of Iasi, Faculty of Machine Manufacturing and Ind. Management, Iași

Main subjects learn are:

- Technical Drawing
- Material Resistance
- Tolerance and Dimensional Control
- Computer aided design- SolidWorks
- Computer aided manufacturing- Catia V5

DIGITAL SKILLS

Office

Microsoft Word / Microsoft Excel / Outlook / Microsoft Powerpoint / Microsoft Office / Skype / Microsoft Teams

CAD_CAM

SolidWorks (Intermediate) / CATIA V5/V6 / Autocad Inventor / CREO / Fusion 360

SIMULATIONS SOFTWARE

Nextra / AutoCrear / Matlab

COMMUNICATION AND INTERPERSONAL SKILLS

Good communication skills

Gained through my years of studying, during my job time when I had to communicate with customers, suppliers, colleagues and superiors

Good listener and mindful of the opinions of others

I work with children and I came from a big family, all my communication skills and initiative have been tested many times, in different situations, even when I've been outside of Romania and I had to manage complicated and, sometimes, funny situations

MANAGEMENT AND LEADERSHIP SKILLS

Leadership

I am able to organize, coordinate and inspire others

Team skills

Working with people I saw that team working is not the easiest thing to do; every time someone has a different opinion, method or idea, you should be able to find a consensus to continue the task.

I can easily adapt to new situations

Spirit to acquire new technical skills

Eager to learn new things and investigate for solutions

06.06.2024 