Cătălin-Marian Orzan

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ABOUT ME

I'm an ambitious final year robotics student at Lucian Blaga University of Sibiu, previously part of an exchange program in Norway, with a versatile skill set, having a passion for older cars, programming, electronics, CAD Design, and photo editing. I gained extensive experience through 2 years of work at Continental Automotive, participating to FANUC Worldskills competition with considerable results and numerous successful projects. I thrive for new challenges.

WORK EXPERIENCE

[2021 – 2023]

Continental Automotive

Continental AG

City: Sibiu
Country: Romania
Name of unit or department: ADAS
Business or sector: Professional, scientific and technical activities
Departments:

R&D_AMS BU VED&PSS:
- CATIA - 3D CAD Design;
- Electronics and CNC operation.

Advanced Driver Assistance Systems (ADAS):
- Automated multiple systems with Excel Visual Basic programming language and Selenium API;
- Problem Solving Tool with PHP and Oracle SQL;
- Developed a tool management app – C# .NET Framework.

EDUCATION AND TRAINING

[2020 – Current]

Robotics Bachelor's degree

Lucian Blaga University of Sibiu - Faculty of Engineering   https://www.ulbsibiu.ro/en/

City: Sibiu
Country: Romania
Field(s) of study: Engineering, manufacturing and construction: *Electronics and automation , Mechanics and metal trades , Electricity and energy*

[10/08/2023 – 24/12/2023]

Exchange student - Mechatronics Engineering

University of Agder   https://www.uia.no/en

City: Grimstad
Country: Norway

DIGITAL SKILLS

Oracle VM VirtualBox | Audacity / Basics | Linux | HTML+CSS | SolidWorks, CATIA | Robotics Frameworks: ROS

Adobe suite:

Adobe Photoshop | Adobe Illustrator | Adobe Premiere | Adobe After Effect

Programming:

C++ | Arduino Programming | Matlab,Matlab Simulink | Universal Robots | Javascript | C# - beginner

Microsoft Office:

Microsoft Excel | Microsoft Word | Microsoft Powerpoint | Microsoft Access | Microsoft Teams

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

German

LISTENING A1 **READING** A1 **WRITING** A1

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SOCIAL AND POLITICAL ACTIVITIES

[2020 – 2023] **SOLIDUS – Engineering students association**   "Lucian Blaga" University of Sibiu - Faculty of Engineering

Part of the – PR team, advertising, Photoshop and

Illustrator Design, video editing and social skills

[16/02/2021 – 19/04/2021] **AIESEC - international youth-run association**

Leadership skills, cross-cultural interaction, global

volunteer exchange helper and public speaking

PROJECTS

[2023] **Wordskills FANUC competiton**

FANUC Robots programming - Worldskills competition.

Won the local competition, participated at the national one as a 2 member team and managed to achieve outstanding results.

[2023] **Student project - ROS UR5 Drawing**

Part of a 3 member team who programmed an UR5 robotic arm utilizing ROS (Robot Operating System) in Ubuntu virtual machine. With a Python script attached, the robotic arm is drawing a provided picture contour on a piece of paper.

[2023] **Simulation of ABB 6400 robotic arm - Simulink path follow**

Part of a 2 member team, managed to achieve a realistic simulation of ABB 6400 robotic arm, including the kinematics for control, in order for it to follow a desired path.

[2023] **Beckhoff CX52 PLC - Oil Separator**

Group project that consisted of programming a Beckhoff PLC using TwinCAT software in order to work with a multitude of sensors (level, height, pressure) and a pump to separate the oil from water in a complex system. Built with a PID controller and simulated using Matlab, the project was a successful implementation.

[26/04/2019 – 09/09/2019] **Inventino - Arduino course**

Funded and supported by Știinţescu Romania.

HOBBIES AND INTERESTS

Leisure activities:
- Photo and video editing;
- Programming (web design, game development);
- Electronics projects;
- Car mechanics, restoration projects;
- Occasional reader.