Robert Frentescu

Nationality: Romanian | **Phone number:** (+40) 0757335204 (Mobile) | **Email address:** frentescu_robert@yahoo.com | **LinkedIn:** www.linkedin.com/in/robert-frentescu-6664274a |

Whatsapp Messenger: 0757335204

ABOUT ME

I am an electrical engineer passionate about integrating traditional electrical design with modern software and automation technologies. Combining my experience in industrial and building projects with growing software and programming skills, I aim to bridge the gap between electrical engineering and digital solutions.
My proactive mindset, leadership experience, and continuous desire to learn drive me to take on roles that involve both technical expertise and team coordination.

EDUCATION AND TRAINING

2013 – 2016 Iasi, Romania
MASTER DEGREE Advanced electrical systems at Faculty of Electrical Engineering, Technical University "Gheorghe A

2005 – 2012 Iasi, Romania
ELECTRICAL ENGINEER SPECIALIZATION ELECTRO-MECHANICS Faculty of Electrical Engineering, Technical University "Gheorghe Asachi"

Field of study Electronics and automation

01/10/2020 – 29/06/2021 Iasi, Romania
QA GRADUATE WANTSOME

Context
Company specialized in offering courses in the IT field
Assignments:
Software testing
Achievements:
-Software Tester diploma
-Learning a programming language
-New knowledge in the IT field

Field of study Personal skills and development , Generic programmes and qualifications not further defined , Basic programmes and qualifications

Final grade Graduated | **Thesis** N/A

01/03/2025 – 30/06/2025 Iasi, Romania
CODE PATH ARCADIS Upskilling Program

- set up my coding environment using Python and Visual Studio Code
- optimize best practices to increase the sustainability of your code
- implement version control and manage code with GIT
- leverage code of others to kickstart my projects
- build a web application

Field of study Software and applications development and analysis

WORK EXPERIENCE

ELECTRICAL DESIGN ENGINEER – ARCADIS – 15/02/2024 – Current – IASI, ROMANIA

Electrical engineering for: Semiconductor industry;Railway and Pharma Building's
** Interim Team Lead – Semiconductor Projects (July 2024 – February 2025)**
- Led a team of 8 engineers(Electrical&Mecanical)on different projects in the industry
- Improved cross-team communication, reducing technical hold-ups
- Mentored junior staff and ensured smooth hand-over between project phases
- Improve the quality of the services offered
Tasks:
- Calculation and dimensioning of cables used for different industries or fields, as well as related electrical design. (Assembly line's,Factories;Railway depots)
- Utilize AutoCAD;Revit to create and modify electrical drawings(P&IDs) ensuring accuracy and compliance with project specifications;

- Performed complete lighting design using Dialux evo — from building model construction and luminaire placement to lighting calculations and report generation;
- Communicate and operate in line with organizational goals and values, as well as department objectives.
- Short circuit, arc flash, under-rated equipment analysis using EasyPower;SKM;ETAP
- Troubleshoot and resolve design issues.
- Independently perform intermediate to advanced electrical engineering work.
- Created electrical panel schematics for:
- KNX/DALI lighting control (drivers, presence sensors, dimming interfaces)
- Dedicated circuit protection for power outlets (MCBs, RCDs)
- Modeled MEP installations in 3D using Revit; determined optimal placement of multifunction sensors (light, temperature, occupancy)
- Developed Structured Wiring Diagrams:
- Rack component definitions: Wi-Fi APs, Bluetooth beacons, data ports (RJ45), patch panels
- Data transmission layouts: UTP/FTP cable routes, distribution cabinet diagrams, rack elevations
- Construction of Other Layouts in which information is displayed about: Small Power; Fire Alarm/Sensors;

Achievements:
- Electrical Design for BIM
- 2D&3D Electrical Design
- MEP instalation design

ELECTRICAL DESIGN ENGINEER – ALTEN – 05/11/2022 – 31/12/2023 – IASI, ROMANIA

Context
Customer: VALMET(Valmet is the leading global developer and supplier of process technologies,automation and servicies for the pulp,paper and energy industries)

Assignments :
Electrical engineering for paper machines industry

Tasks:
-Design electrical circuits for paper machinery using EPLAN Electric P8;CADMATIC (create and update electrical circuits, electrical automation panels,wiring and cabling;PLC connections and constructions ; I/O's connection logic for PLCs; 2D Cabinet Layouts).
-Automation systems for command and control of synchronous and asynchronous motors
-Collaborating with the engineering team to ensure designs meet project requirements
-Modify and refine designs, using working models, to conform to customer specifications, production limitations, or changes in design trends;
-Create and update reports and bill of materials.
-Update and correct all errors/situations after crosschecked documents/reports

Achievements:
-Report of all task in dead-line
-Learning a new design tool
-technical background in electrical and controls systems
-working with other engineering disciplines

Team Leader

Coordination of the three teams of engineers (Electrical; Mechanical; Fluid) to improve the quality of the services offered

ELECTROTEHNICAL ENGINEER – S.C. EXQUISITE S.R.L – 10/01/2017 – 10/10/2022 – IASI, ROMANIA

Context
Equipment and solutions for industrial automation

Assignments :
Electrical engineering for industrial dosing lines

Tasks:
- Design of low voltage panels with AutoCad in accordance with the technical documentation and based on the requirements of the beneficiary
- Checking the functionality according to the electrical diagram designed by myself
- Fitting and implementing the elements of force and automation, setting of electrical devices taking into account the operating parameters (motors, stepper motors, solenoid valves, digital and analog sensors, frequency converters, drivers, PLC, relay, etc.).
- Design/Implementation/Connection of Human-Machine interface systems
- Investigating, troubleshooting, and solving a wide variety of electrical engineering issues.
- Technical documentation for machine use and troubleshooting
- Sequential verification of the component modules of a system and the appropriate adjustment of the sensors and the execution elements within the system.
- Customer personal training for proper use of the machine

Achievements
-tackle complex systems
-experience managing engineering projects from concept through execution and close-out
-Machine Automation
-Atex Directives

PRODUCTION PLANNING ENGINEER – S.C TOTAL GAZ S.R.L – 07/06/2012 – 30/12/2016 – IASI, ROMANIA

Production Planning Engineer
Context
Equipment and solutions for gas distribution
Assignments:
Mechanical engineering for Oil & Gas Industry, these being gas burner; gas regulator; filter station; industrial valves;

Tasks:
- I planned the construction of various complex equipment using ERP software
- Tracking the manufacturing operation between section and section to warehouse.
- Making of the sheets for supplying the necessary materials.
- Releasing the tehnological sheets and drawing towards productions sections.
- Creation of articles according to their stardandization.
- Planning, tracking and release in execution the materials required.
- Responsible for all activities needed to finish the order

Achievements:
-Learning an ERP control software(SMARTIS)
-Knowledge in the field Oil&Gas

CNC MACHINE OPERATOR – DELPHI DIESEL SYSTEM – 09/2010 – 30/06/2012 – IASI, ROMANIA

Context
Construction of injectors and diesel pumps
Assignments :
Data completion To obtain SPC graph

Tasks:
- correction of finished product quota values by introducing new data obtained by calculation
Supplying the workplace with semi-finished materials, study the execution documentation, programming CNC machine tools.
- establishing the origin of coordinates, initial adjustment CNC machine tools,adjusting and changing the machine tools
- ensuring operation of CNC machine tools
- planning their work and workplace organization, and the organization framework of opening and closing activity at work.

Achievements:
-Improvement of a certain production process by reducing time using the Kaizen method
-Versatility in several operations
-New knowledge in automotive industry
-Operation of a machine with numerical control

ONLINE COURSES

01/12/2023 – 01/12/2024
UDEMY/LINKEDIN Course

- Basics of Power Electronics; LTSpice; A Guide to Electronics Cooling; AutoCad Electrical for electrical&automation;Electrical Control&Protection Systems; SQL Programing Basics; Advanced JMeter; ALTIUM; SOLIDWORKS Electrical; Advanced Cisco Routing: RIP and EIGRP; Wireshark Essential Training; PCB Design with ORCAD; Revit for Electrical Design; CircuitPython; Wireshark; Security Testing; PowerShell; Verilog for FPGA Developement; FPGA Development; IoT Fundation; Cisco Modeling Labs; GIT; AZURE DevOps; Neural Networks; JMeter; DataDog; Matlab; Labview; Doker; BlueBeam Revu 21

SKILLS

Industrial automation | CAD software | SQL | Java (computer programming) | power electronics | electrical engineering | troubleshoot | Autodesk Revit Mep | AutoCAD/ Electrical AutoCAD | Electrical design | Soft CADMatic | Eplan Eletric 5 e P8 | create electrical wiring diagram | Electrical Wiring | >Teamwork | Electrical Protection | BiM Software | Oil & Gas | Mep | KPI tracking | Production planning | Requirement Engineering | ATEX | Enterprise resource planning | DiaLUX evo | Lighting Calculation | Motor Control | Power system analysis

LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	C1
FRENCH	B1	B1	A2	A2	A2

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