

Curriculum vitae

Personal information

First name/ Last name	Miclaus Marius Ioan
Address	Rasaritului Street, 73 No, 318 Flat, Cluj-Napoca City, Romania
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E-mail	miclausmariusioan@yahoo.com
Nationality	Romanian
Date of birth	25.12.1987

Work experience

Period	June 2026 – Present
Occupation or position held	Mechanical design engineer
Main activities and responsibilities	Pre-study and designed machines and tools for assembly and testing PCBs. Choosing solutions for projects, and projects components (sensors, robots, pneumatic-cylinders, electrical axis, checkers, vision-cameras). Calculation of machines cycle time. Safety and risk analyzes.
Name of organization	Bosch Automotive S.R.L.
Type of business or sector	Automotive industry
Period	November 2025 – June 2026
Occupation or position held	Research assistant
Main activities and responsibilities	Research on the development of medical robots in the project “New smart and adaptive robotics solutions for personalised minimally invasive surgery in cancer treatment” - CF 116/15.11.2022
Name of organization	Technical University of Cluj-Napoca Research
Type of business or sector	Research
Period	January 2019 – November 2025
Occupation or position held	Co-owner and mechanical design engineer
Main activities and responsibilities	Preparation of the general offers for projects Solution architect during pursuit and proposal phase by defining innovative and efficient solutions to fit customers’ requirements. Responsible for the generation of all project proposal deliverables. Choosing solutions for projects, and projects components (sensors, robots, pneumatic-cylinders, electrical axis, checkers, control-cameras, safety systems). Pre-study and designed machines for assembly and testing and assembly lines for automotive components (pumps and carbon brushes) for Eckerle Automotive, ANRL Design and Tehnoglobal; and tools machine for Remsco Machine Tools. Calculation of machines cycle time. Safety and risk analyzes.
Name of organization	Total Innovation
Type of business or sector	Mechanical design for automotive industry
Period	August 2018 – August 2020
Occupation or position held	Mechanical design engineer

Main activities and responsibilities	Designed machines and tools for testing PCBs for Bosch, a machine for sorting rings of bearing and loading a grinding machines for SNR and machines and conveyors for manufacturing process of tires for Michelin. Calculation of machines cycle time. Safety and risk analyzes.
Name of organization	Energom SRL
Type of business or sector	Integrator in automotive industry
Period	May 2017 - August 2018
Occupation or position held	Chief of Research and Development Department and Machining Department
Main activities and responsibilities	Leading the mechanical design department and machining department. Full responsibility about mechanical projects. Choosing solutions for projects, and projects components (sensors, robots, pneumatic-cylinders, electrical axis, checkers, control-cameras). Pre-study and designed machines for cutting, banding, welding components (wires, capacitors, hall sensors, varistors, coils, carbon brushes); assembly lines, welding line for automotive components (electric brushes, pick&place components, laser marking, springs, electronic components, conductors).
Name of organization	Eckerle Automotive S.R.L.
Type of business or sector	Automotive industry
Period	June 2012 – May 2017
Occupation or position held	Mechanical design engineer
Main activities and responsibilities	Designed machines and assembly lines for automotive components (rear window wiper, compressor, airbag unit control, hinge, fuel pump, engine components, steering wheel, gearbox display, fog lights, rear light, front light, cluster instrument, fuel tank, gearbox component, uree pump) for different clients: Valeo, Continental, TRW, Dacia, Renault, Faurecia, Wabco, Plastic Omnium, PSA, Delphi. Choosing solutions for projects, and projects components (sensors, robots, pneumatic-cylinders, electrical axis, checkers, control-cameras, safety systems). Calculation of machines cycle time. Safety and risk analyzes.
Name of organization	S.C. FSA Romania SRL
Type of business or sector	Integrator in automotive industry
Period	February 2012 – June 2012
Occupation or position held	Mechanical design engineer
Main activities and responsibilities	Making the connection with clients, presenting our clients the simulations made, design billboard, developing technical documentation (drawings).
Name of organization	S.C. SERATEL ELECTRONICS. SRL
Type of business or sector	Advertising production
Period	November 2011 – February 2012
Occupation or position held	Mechanical design engineer
Main activities and responsibilities	Designed conveyors for mining and agricultural industries. Developing assembly and execution drawings.
Name of organization	Ideco Hungary Kft
Type of business or sector	Mechanical design for mining
Period	2008-2011
Occupation or position held	Students representative in the faculty council

Name of organization	Technical University of Cluj-Napoca, Faculty of Machine Building, Design Engineering and Robotics Department.
Main activities and responsibilities	Students representative, presenting the students' problems in Faculty Council, taking part in counsel meetings
Period	July - August 2010
Occupation or position held	Intern
Main activities and responsibilities	Develop teamwork skills, Improving knowledge of using: SolidWorks, CATIA, CorelDraw, Measuring parts on machine-coordinates measuring.
Name of organization	Technical University of Cluj-Napoca, Faculty of Machine Building, Design Engineering and Robotics Department.
Period	2007 – 2010
Occupation or position held	Member (Sport Department)
Main activities and responsibilities	Development or support every activity of the organization, development and support projects of Sport Department.
Name of organization	Students Organization of Technical University of Cluj-Napoca
Period	July-August 2009
Occupation or position held	Intern
Main activities and responsibilities	Develop work skills in a large factory, Improved knowledge about manufacturing, measuring parts on machine-coordinates measuring, assembly design.
Name of organization	S.C. UNIO S.A., Satu Mare
Type of business or sector	Manufacturing
Period	November 2007
Occupation or position held	Organizer of the project „ Football – Polisport” in the „ Days Technical University ” November 2007
Main activities and responsibilities	Responsibility about the project (about 200 students involved), Negotiating partnership agreements, logistics, human and their management. Promoting this project in the academic area.
Name of organization	Students Organization of Technical University of Cluj-Napoca
Type of business or sector	Voluntary
Period	2005 – 2010
Occupation or position held	Football referee
Main activities and responsibilities	Referee football matches, full responsibility about decisions.
Name of organization	Football Association of Satu Mare City
Type of business or sector	Voluntary

Education and training

Period	October 2025
Main subjects	Research on the development of medical robots
Name and type of organization providing education and training	Faculty of Industrial Engineering, Robotics and Production Management, Technical University of Cluj-Napoca
Title of qualification awarded	PhD. student

Period	July 2019
Main subjects	Basic Siemens NX: model, assembly, drafting
Name and type of organization providing education and training	DigitalTwin
Title of qualification awarded	Basic user of Siemens NX
Period	2011-2013
Main subjects	Machine elements, Advanced software for design, Developing technical documentation, Design for X, Total design, Design for quality, Elements for virtual reality and digital manufacturing, Dynamics and acoustics of machine-tools, Modern driven hydraulics, Design of manufacturing equipments, Computer aided design.
Name and type of organization providing education and training	Faculty of Machine Building, Technical University of Cluj-Napoca
Title of qualification awarded	Master, Specialized Computer Aided Design for Manufacturing Systems, upon passing the master examination with grade 10
Period	2007 – 2011
Main subjects	Fundamentals of splinting and surface generation, Manufacturing bases, Fundamentals of plastic deformation processes, Ergonomics and safety, Quality engineering, Plastics and composites, Machine-Tools, Mechanics, Mechanisms, Computing aided design of using software: SolidWorks, CATIA V5 and 3D Studio MAX, Machine elements, Computing aided design, Competitive design, Ecological design of products, Rapid prototyping, Virtual reality, Strength of materials, Statistics, Study of color, Study of shape, Study of materials, Manufacturing technologies.
Name and type of organization providing education and training	Faculty of Machine Building, Technical University of Cluj-Napoca
Title of qualification awarded	Mechanical Engineer, Specialization Industrial Design; upon passing the bachelor examination with grade 10.
Period	October 2007
Name and type of organization providing education and training	AutoDESK Training Center, Faculty of Machine Building, Technical University of Cluj-Napoca
Title of qualification awarded	Course of AutoCAD; acquiring skills of drafting and design using AutoCAD.
Period	2003 – 2007
Title of qualification awarded	High school diploma, Technician at transportation
Main subjects	Mathematics, Technical drawing, Electro-technique, Machine elements and mechanisms, Technology of development and processing half-finished, Automotive equipment, Physics, Chemistry, Economics, French
Name and type of organization providing education and training	Technical College of Transport and telecommunication „Ion I. C. Bratianu” of Satu Mare City
Period	November – December 2004
Qualification awarded	Football referee second class
Main subjects	Football game laws, Operation code regulations of football activity
Name and type of organization providing education and training	Football association of Satu Mare City
Awards	▪ First place, Contest of 3D modeling in SolidWorks, organized by the Student Organization of Technical University of Cluj-Napoca (April 2012), ▪ Second place, Contest of Design in AutoCAD, organized by the Student Organization of Technical University of Cluj-Napoca (April 2012), ▪ Second place, Contest of 3D modeling in CATIA V5, organized by Training Center CATIA SOLUTIONS CENTER - DASSAULT SYSTEMES of Cluj-Napoca, with

Magic Engineering (May 2011),

- First place, Scientific session for students “A CAREER IN ENGINEERING” (May 2011),
- 12 awards in middle school and high school for schools results, in international competitions and contests, environmental protection and European integration, mathematics, information and communication technology (1995 - 2007),
- Awards in sports competitions (Football).

Diplomas

- Diploma of excellence „Graduate promotion 2011”, Faculty of Machine Building, Technical University of Cluj-Napoca
- Diploma of excellence for international competition „Together in Europe ” (2006)

Personal skills and competences

Mother language

Romanian

Other language

Self-assessment

English

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B1	B1	B1	B1	B1

Social skills and competences

Team spirit; Communication skills; Adaptability; Positive thinking; Efficient; Active; Responsible; Motivation skills.

Organizational skills and competences

Organizational skills and coordination of action; Leadership skills; Ability to find optimal solutions

Computer skills and competences

Use modeling and design software: AutoCAD (advanced), SolidWorks (advanced: drawing, modeling, surface, weldment, sheet metal), Inventor (advanced: drawing, modeling, assembly), Siemens NX (basic level: model, assembly, drawing), CATIA V5 (Part Design, Assembly Design, Drafting, Structure Design, Generative Sheet metal Design, Image & Shape, Generative Shape Design), 3D Studio MAX, EON Reality Studio.

Using computing software in the design machine-elements: MITCalc, MechSoft, MathCAD, MDSolid.

Use software analysis and design process planning: Qualica.

Use graphics program, CorelDraw;

Use the MS Office, MS Vision, MS Project.

Driving license

I possess a driving license category B, with experience since August 2006