



Alexandru-Ionut Nicolescu

Date of birth: 16/10/1994 | **Nationality:** Romanian | **Phone number:**

(+40) 751066553 (Mobile) | **Email address:** nicolescu1alexandru@gmail.com |

Address: Str. Tuzla, nr.1, bl.11A, etaj 6, ap. 26, sector 2, 023831, Bucuresti, Romania (Home)

Address: Splaiul Independentei nr. 313, Facultatea de Inginerie Industriala si Robotica, Corp CB,sala CB 111, Sector 2, Bucuresti, 060042, Bucuresti, Romania (Work)

WORK EXPERIENCE

01/07/2016 – 01/10/2016 Titu, Romania

MECHANICAL ENGINEER RENAULT ROMANIA

Feasibility study runs 10 kilometers on HIL(Hardware in the loop)

- The bases of internal combustion engines
- Structure and usefulness of HIL benches
- Work in Matlab, Control Desk, DDT2000

12/07/2022 – 04/2024 Bucharest, Romania

MECHANICAL ENGINEERING SPECIALIST FACULTY OF INDUSTRIAL ENGINEERING AND ROBOTICS, UNIVERSITY POLITEHNICA OF BUCHAREST

- website and web platform administrator,
- designing parts in 3D software.
- additive manufacturing

01/05/2024 – CURRENT Bucharest

ASSISTANT PROFESSOR NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY POLITEHNICA BUCHAREST

Teaching knowledge to students in the following disciplines:

- neural networks;
- computer-aided graphics;
- additive manufacturing;
- applied informatics.

EDUCATION AND TRAINING

15/09/2009 – 08/07/2013 Bucuresti, Romania

CERTIFICATE IN MATHEMATICAL-INFORMATICS National College " Spiru Haret "

- certified in computer
- Oracle Academy Instructor

Address Strada Italiana nr.17 , 060042, Bucuresti, Romania

01/10/2013 – 06/07/2017 Bucuresti, Romania

CERTIFICATE IN MECHATRONICS AND ROBOTICS Politehnica University of Bucharest, Faculty of Mechanical Engineering and Mechatronics

- mathematical analysis- special mathematics- mechanics- the elements of mechanical systems- manufacturing technologies- numerical methods- computer graphics- accounting & finance- dimensional inspection and metrology- the base of mechatronics

Address Splaiul Independentei nr.313, Bucuresti, Romania

Actuators and sensors from active and intelligent materials
Biomechatronics
Advanced manufacturing systems
Models and environments for simulation of mechatronic systems

Address Splaiul Independentei nr. 313, 060042, Bucharest, Romania

- Composite materials
- Finite element modeling in engineering

Address Splaiul Independentei nr.313, 060042, Bucuresti, Romania | **Field of study** Material Resistance |

Level in EQF EQF level 7 | **Thesis** Analysis of the mechanical behavior of flexible mechanisms obtained by additive manufacturing

● **LANGUAGE SKILLS**

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B1	B2	B2	B1	B2
FRENCH	A1	B1	A2	A1	A2

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

● **DIGITAL SKILLS**

Microsoft Office | Solidworks, Autodesk Inventor & AutoCad | CURA | Good familiarity with MATLAB, Simulink | NI LabVIEW(Basics)

● **PUBLICATIONS**

2015

[Industrial robots work](#)

Industrial robots. Structure. Types. Applications.

Contest Student Creativity and Innovation, p.23-24

2023

[Robots in Action](#)

The objective of this study is to create a robot car prototype using additive manufacturing.

Modelling and 3D printing a robot car for dual measurement. p.170-180

2023

Dimensional and Weight Characterization of 3D Printed PET Specimens Designed for Compliant Mechanisms

Alexandru-Ionut Nicolescu, A.Hadăr, F.Baciu, C.Stochioiu, M-E.Ulmeanu, 2023