



Dragoș-Daniel Sebeni

Nationality: Romanian **Date of birth:** 13/10/1999 **Gender:** Male

Phone number: (+40) 728050309

Email address: dragos.sebeni@mep.utcluj.ro

Home: Strada Fabricii de Zahăr, nr. 4, bl. Y4, sc. 1, et. 4, ap. 17, 400572 Cluj-Napoca (Romania)

ABOUT ME

I am a responsible person, highly motivated to seize opportunities that contribute to my personal and professional development. My main asset is perseverance. I adapt quickly to any situation. I am an open, sociable, and patient person who enjoys working with people.

WORK EXPERIENCE

 **Technical University of Cluj-Napoca** – Cluj-Napoca, Romania

Research Assistant

[01/10/2024 – Current]

- 3D modeling of medical robots in the Siemens NX working environment
- Manufacturing robots through 3D printing
- Programming in Matlab, Python
- Testing

 **SC APA CTTA SA** – Alba Iulia, Romania

Automation Engineer

[06/12/2022 – 30/09/2024]

- Configuring and monitoring sensors for water leak detection
- Water leak detection using specialized equipment
- Monitoring and adjusting water pressure and flow in SCADA

 **Cyprus University of Technology** – Limassol, Cyprus

Erasmus Student

[28/06/2021 – 31/08/2021]

- Measured radiation produced by a lamp system using a solar cell sensor in an indoor laboratory
- Discharged hot water from a boiler at specific time intervals to measure the boiler's emptying time in an outdoor laboratory
- Processed various data from both the indoor and outdoor laboratories based on data transmitted by sensors

EDUCATION AND TRAINING

PhD in Mechanical Engineering

Technical University of Cluj-Napoca [01/10/2024 – Current]

City: Cluj-Napoca | Country: Romania

Master's Degree in Mechatronics Systems Engineering

Technical University of Cluj-Napoca [21/07/2022 – 08/07/2024]

City: Cluj-Napoca | Country: Romania

Mechatronics Engineer (Bachelor's Degree)

Technical University of Cluj-Napoca [01/10/2018 – 08/07/2022]

City: Cluj-Napoca | Country: Romania | Field(s) of study: Mecatronică și Robotică | Final grade: 9.4 | Thesis: Proiectarea și realizarea unei orteze active acționată de mușchi artificiali pneumatici pentru recuperarea membrului inferior uman.

High School Diploma

"Horea, Cloșca și Crișan" National College [2014 – 2018]

City: Alba Iulia | Country: Romania | Field(s) of study: Mathematics-Informatics

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

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

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

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

SKILLS

advanced knowledge of Solidworks / Autocad - medium knowledge / Familiar with ANSYS / PLC & CODESYS / Familiar with C++ / Certiport IC3 GS4 / MATLAB-Simulink / GIS software: ArcGIS, QGIS / Siemens Nx / SolidWorks / Catia v5 (Generative Shape Design, Part Design, Assembly Design, Drafting Design) / Microsoft Office

DRIVING LICENCE

Driving Licence: AM

Driving Licence: B1

Driving Licence: B

PROJECTS

[11/2025 – 06/2026]

Design of a wrist rehabilitation robot

- Development of the mechanism's kinematic scheme
- Development of the robot's CAD model in Solidworks workspace
- Printing the robot's component parts using an industrial 3D printer
- Mounting sensors and motors
- Implementing control on the robot
- Testing the robot

[10/2024 – 10/2025]

Design and testing of an exoskeleton-type glove for upper limb finger rehabilitation

- Development of the mechanism's kinematic scheme
- Development of the glove's CAD model in Solidworks and Siemens NX workspaces
- Finite element simulation of the mechanism

- Printing the mechanism using a PolyJet printer
- Testing

[12/2023 – 07/2024]

Studies and research on mobile robots with omnidirectional tracks

- Development of the robot's kinematic scheme
- Development of the robot's CAD model in the Solidworks workspace
- Simulating the robot in Solidworks Simulation workspace

HOBBIES AND INTERESTS

Reading

Tennis

Cooking

Traveling

Solving puzzles

COMMUNICATION AND INTERPERSONAL SKILLS

Accountable

Self-motivated

Teamwork

Positive attitude

Determined