



# Horvath Daniel

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(Home)

## ● WORK EXPERIENCE

09/2022 – CURRENT Cluj-Napoca, Romania

**TEHNICIAN CESTER - TECHNICAL UNIVERSITY OF CLUJ-NAPOCA**

08/2018 – 09/2018 Cluj-Napoca, Romania

**SOUS-CHEF PIZZA HUT**

## ● EDUCATION AND TRAINING

2022 – CURRENT Cluj-Napoca, Romania

**MASTERS DEGREE IN ENGINEERING** Technical University of Cluj-Napoca

**Address** Cluj-Napoca, Romania | **Field of study** Robotics

2018 – 2022 Cluj-Napoca, Romania

**BACHELORS DEGREE IN ENGINEERING** Technical University of Cluj-Napoca

Programming in C++/C/Java, integrating microcontrollers (Arduino), development of GUI, integration of haptic devices (Omega.7), development of a control system architecture for robotic teleoperation.

**Address** Cluj-Napoca, Romania | **Field of study** Robotics | **Final grade** 10 |

**Thesis** Telerobotic Medical System for the Minimally Invasive Treatment of Liver Cancer

**Link** <https://www.youtube.com/watch?v=y2NoI05oSXk>

2015 – 2018 Cluj-Napoca, Romania

**HIGH-SCHOOL DIPLOMA** Liceul Teologic Baptist Emanuel

**Address** Cluj-Napoca, Romania

## ● LANGUAGE SKILLS

Mother tongue(s): **ROMÂNĂ**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLEZĂ</b>	C2	C2	C2	C2	C2
<b>FRANCEZĂ</b>	A2	A2	A2	A2	A2

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

## ● **DIGITAL SKILLS**

Microsoft Office | Microsoft Word | Microsoft Excel | Microsoft Powerpoint | Programming Languages: C++/C, C#, Python, Java, MATLAB, RAPID, LADDER, STL, HTML, CSS, php; | CAD modelling: CATIA, NX, Solidworks, Delmia, AutoCAD; | Collaborative robots programming: Kuka iiwa, Universal Robots; | Industrial robots programming: ABB, FANUC;

## ● **ADDITIONAL INFORMATION**

### **DRIVING LICENCE**

Driving Licence: B

### **ORGANISATIONAL SKILLS**

#### **Project Management**

- Good organizational/management skills acquired following the development of the bachelors degree project;
- Good skills in research project development;

### **HOBBIES AND INTERESTS**

**Sport** Volleyball, Basketball, Ping-pong

**Electronics Projects/Tinkering** Projects involving integration of microcontrollers or microprocessors (Arduino; Raspberry Pi; NodeMCU);  
3D Printing;

**Filming & Video Editing** Skills in filming, editing videos in Adobe Premiere Pro & image editing in Adobe Photoshop.

### **COMMUNICATION AND INTERPERSONAL SKILLS**

#### **Communication Skills**

- Good communication skills in team-based environments;

### **PUBLICATIONS**

#### **[Design and Experimental Setup of a Robotic Medical Instrument for Brachytherapy in Non-Resectable Liver Tumors](#)**

– 2022

Tucan, P.; Vaida, C.; Horvath, D.; Caprariu, A.; Burz, A.; Gherman, B.; Iakab, S.; Pislă, D. Design and Experimental Setup of a Robotic Medical Instrument for Brachytherapy in Non-Resectable Liver Tumors. *Cancers* **2022**, *14*, 5841. <https://doi.org/10.3390/cancers14235841>

**Development of a force feedback control for robotic assisted liver cancer treatment** – 2022  
(Accepted for publication)