



## Erion Hani

**ID:** N0347358


**Date of birth:** 21/12/2004

**Place of birth:** Skopje, North Macedonia

**Nationality:** Macedonian/citizen of the Republic of North Macedonia


**Gender:** Male

## CONTACT

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 [Erion Hani](#)

## ABOUT ME

I'm Erion, a tech-savvy and hands-on problem solver with experience in hardware and software projects from building a DIY drifting go-kart to programming microcontrollers like the ESP32 and developing CNC systems. I enjoy turning ideas into working solutions, with a strong interest in embedded systems, automation, and smart technology.

## WORK EXPERIENCE

**Vila Enhalon** Struga, North Macedonia

### Hotel Manager

01/05/2024 – 01/06/2025

- Oversaw daily hotel operations, ensuring smooth front desk, check-in/check-out, and guest service processes
- Managed reservations, digital records, financial data, and internal reporting systems
- Coordinated staff schedules and supervised housekeeping and maintenance teams
- Maintained high hospitality standards and operational efficiency across all departments
- Handled social media presence and online guest engagement to promote the hotel

**Training Center for Management of Conflict** Skopje, North Macedonia

### Network Administrator (Part-Time)

01/09/2022 – 01/10/2024

- Maintenance of computers
- Administered and maintained on-premises and cloud-based servers for organizational operations
- Managed Network Attached Storage (NAS) systems for secure and organized data access and backup
- Oversaw the NGO's website hosting and updates
- Implemented and monitored network security measures
- Provided technical support and IT solutions to staff and volunteers
- Ensured regular data backups and disaster recovery protocols

## EDUCATION AND TRAINING

**30/06/2025 – 15/07/2025** Skopje, North Macedonia

### Certified Ethical Hacker (CEH) EC-Council

Website <https://www.eccouncil.org/>

**01/04/2025 – 30/05/2025** Tirana, Albania

### AWS Academy Graduate - AWS Academy Cloud Web Application Builder Amazon Web Services (AWS)

Website <https://www.credly.com/organizations/amazon-web-services/badges>

**01/02/2024 – 07/06/2024** Tirana, Albania

### Networking Essentials Cisco

Website <https://www.credly.com/organizations/cisco/badges>

**15/05/2024 – 20/06/2024** Skopje, North Macedonia

### Advanced Python Semos Education

Website <https://semosedu.com/product/python-ii-level>

14/04/2024 – 14/05/2024 Skopje, North Macedonia

● **Python – Level I** Semos Education

Website <https://semosedu.com/product/python-i-level>

19/05/2023 – 07/06/2023 Skopje, North Macedonia

● **Analyzing Data with Python** Semos Education

Website <https://semosedu.com>

27/04/2023 – 18/05/2023 Skopje, North Macedonia

● **PL-300: Microsoft Power BI Data Analyst** Semos Education

Website <https://semosedu.com>

30/03/2023 – 26/04/2023 Skopje, North Macedonia

● **DP-808: Querying Data with Microsoft Transact-SQL** Semos Education

Website <https://semosedu.com>

01/10/2023 – CURRENT Tirana, Albania

● **Bachelor's Degree in Computer Engineering and Information Technology** Canadian Institute of Technology (CIT)

Website <https://cit.edu.al/>

01/09/2019 – 01/06/2023 Skopje, North Macedonia

● **High School Diploma** ShMQSh "Zef Lush Marku"

Website <https://zeflushmarku.edu.mk/>

01/09/2010 – 10/06/2018 Skopje, North Macedonia

● **Certificate of Completion – Primary Music Education (Violin)** Music & Ballet School "Ilija Nikolovski - Luj"

## PROJECTS

01/03/2025 – 16/06/2025

● **CNC Pen Plotter Writing Machine (Arduino + GRBL)**

CNC Plotter #1 – Basic Version (GRBL with Stepper Motors)

### Description:

This was our first CNC plotter, built with affordability and simplicity in mind. It used **two 28BYJ-48 stepper motors** for X and Y axes, and an **SG90 servo motor** to lift and lower the pen (Z-axis). The control system was based on the **GRBL firmware** running on an Arduino Uno.

### Key Features:

- X and Y movement: 28BYJ-48 stepper motors via ULN2003 drivers
- Z-axis pen lift: SG90 servo motor
- Firmware: GRBL (custom-modified to support servo for pen up/down)
- Structure: recycled printer parts, and 3D printed parts
- Software used: Inkscape with G-code extensions + Universal G-code Sender (UGS)

### Purpose:

A low-cost introduction to CNC control and plotting, focused on learning axis calibration, G-code basics, and motion control.

CNC Plotter #2 – CD/DVD Drive Version (Compact & Precise)

### Description:

The second CNC plotter was an **upgraded, compact version** built using the **mechanisms from old CD/DVD drives**. These drives provided built-in rails and stepper motors, offering better precision and a more compact design. Like the first version, it used a **servo motor** for the Z-axis to lift the pen.

### Components:

- **Motors:** Stepper motors from CD/DVD drives (X and Y axes)

- **Z-axis:** SG90 servo motor
- **Controller:** Arduino Uno running **custom GRBL firmware**
- **Software:** Inkscape + G-code plugin, UGS for sending G-code

**Purpose:**

To create a **more precise and portable** CNC plotter using recycled CD drive parts, with smoother motion and better accuracy than the first version.

**Links** <https://imgur.com/a/NIYIk48> | <https://imgur.com/a/U3GEmXc> | <https://imgur.com/a/wRbmU0d>

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Albanian

**Other language(s):**

**Macedonian**

**Listening** C2

**Spoken production** C2

**Reading** C2

**Spoken interaction** C2

**Writing** C2

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**English**

**Listening** C2

**Spoken production** C2

**Reading** C2

**Spoken interaction** C2

**Writing** C2

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**Serbian**

**Listening** B2

**Spoken production** B1

**Reading** B2

**Spoken interaction** B2

**Writing** A2

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**German**

**Listening** A2

**Spoken production** A2

**Reading** A2

**Spoken interaction** A2

**Writing** A2

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