# Dechasa Shimels Asseffa

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## Profile

Master's student in Biomedical Engineering with a Bachelor's degree in Computer Science and Engineering. Hands-on experience in software development, IT systems, and IoT-based health projects. Highly motivated to strengthen skills in software and firmware development within industrial and biomedical environments.

## Education

**MSc in Biomedical Engineering** *2024 – Present*
Università Politecnica delle Marche, Italy
*Relevant Coursework:*

- Biomedical Signal and Image Processing

- Biofluid Dynamics

- Applied Measurement Techniques

- Cognitive Computation and Psychology

- Modeling and Control of Biological Systems

- Bioinformatics and Systems Biology

- Assistive Robotics

- Bioengineering of Motor Rehabilitation

**BSc in Computer Science and Engineering** *2017 – 2022*
Adama Science and Technology University, Ethiopia
**GPA (Major): 3.58 / 4.00**
*Relevant Coursework:*

- Data Structures and Algorithms

- Computer Networks

- Web Development

- Programming in Java, Python, and C++

- Cyber Security

- Artificial Intelligence

- Natural Language Processing

- Cloud Computing

## Technical Skills

**Programming:** Python (basic–intermediate), C/C++, Java, JavaScript
**Web Technologies:** HTML, CSS, PHP, SQL, REST APIs
**Embedded / IoT:** Arduino, sensors, basic firmware concepts
**Tools & Platforms:** Git, Linux, AWS/GCP (basic), Microsoft Office

## Projects

**IoT-Based Health Monitoring System**

- Developed a health monitoring system using Arduino sensors and a Python (Flask) web application

- Enabled collection and transmission of patient data over the internet for remote monitoring

**Inventory Management System – Dire Dawa University**

- Designed and implemented a web-based inventory management system

- Improved efficiency compared to traditional manual inventory methods

## Work Experience

**Junior Solutions Developer** *Sep 2021 – Nov 2021*
Dire Dawa University, Ethiopia

- Developed an inventory management system as part of a university internship

- Assisted with basic network installation and system setup

**IT Information Manager** *Sep 2022 – Jul 2024*
Dire Dawa Administration (Kebele 9), Ethiopia

- Performed computer maintenance, software installation, and user support

- Provided basic IT training and managed local networking tasks

## Languages

English (B2/C1)
Italian (A1 – basic, learning)
Amharic (Native)
Oromiffa (Native)

## Additional Information

Strong teamwork and communication skills
High motivation to learn and grow in software and firmware development