# Ikram Bekkaoui

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**Willing to relocate**

Computer Engineering student graduating Jan 2026 with experience in embedded systems, computer vision, and mobile development. Built full-stack solutions from Raspberry Pi–based automation to AI-powered mobile apps. Passionate about applying technology to solve real-world challenges through innovation and system integration.

## Education

Bachelor of Computer Science Engineering – University of Debrecen — Sept 2022 – Jan 2026

- Relevant Coursework: Microcontrollers, Programming (C, C++, Java), Digital Design, Embedded Systems.

## Experience

Software Engineering Intern – *LineOfCode* (Remote) — Mar 2025 – Jun 2025

- Built automated parking system using Raspberry Pi/OpenCV, eliminating 100% of manual entry through license plate recognition.
- Optimized computer vision pipeline for <2s response time on edge devices.
- Integrated embedded hardware with PostgreSQL database, ensuring reliable real-time data management.

**Tech Used**: C, Python, Raspberry Pi, Linux, OpenCV, YOLO, Tesseract OCR, PostgreSQL

## Projects

**TaskE** (AI-Powered Task Management App) | *Thesis Project*

- Developing mobile task manager with TensorFlow Lite on-device AI for dynamic prioritization.
- Integrated SQLite + Firebase for efficient local and cloud data storage.

**Tech Used**: React Native, Firebase, SQLite, TensorFlow Lite

**EyeC** (Color Detector App for Colorblind Users) | *Independent Project*

- Built accessible app for colorblind users with 80% storage reduction via metadata-based architecture.
- Implemented real-time color detection using Palette API + HSV analysis.
- Delivered polished product with splash screen, logo, and Material Design UI.

**Tech Used:** Java, Android Studio, OpenCV, SQLite, Palette API

**HIT** (Healthcare Innovation for IVF Treatment) | *Co-Founder, EIT Health I-Day*

- Researched and designed prototype for automated drug delivery in the $24B IVF market.
- Conceptualized device to improve dosing accuracy and patient comfort.
- Contributed to design that helped win 1st Place at EIT Health I-Day Debrecen **2024**.

**Tech Used**: Concept Prototyping, Embedded C, User-Centered Design.

## Technical Skills

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| **Programming:** | C , C++ , Python , Java , SQL, ABAP |
| **Embedded & IoT:** | Raspberry Pi, Arduino, Sensor Integration, Real-Time Systems |
| **AI & Computer Vision:** | OpenCV, YOLO, TensorFlow Lite, Tesseract OCR |
| **Mobile & Web:** | Android Studio, React Native, Firebase, HTML, CSS |
| **Tools & Platforms:** | Git, Linux, PostgreSQL, SQLite |

## Awards & Certifications

- 1st Place Winner – EIT Health I-Day Debrecen (2024)
- Stipendium Hungaricum Scholar – Tempus Public Foundation (2022–2026)

## Languages

English (Fluent), French (Intermediate), Arabic (Native)