



# MD IMRAN KHAN

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## ● ABOUT ME

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I am a graduate student at Yangzhou University, pursuing my master's in software engineering. I have proficiency in Python and C/C++. I have experience with hardware design, including Arduino and STM32 based prototyping, Linux OS, DIY projects, and FPGA synthesis. I am highly interested in robotics and embedded systems research. I am an energetic and enthusiastic person. And a self-learner who loves to accept challenges!

## ● EDUCATION AND TRAINING

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01/09/2023 – 30/06/2026 Yangzhou, China

**MASTER OF ENGINEERING IN SOFTWARE ENGINEERING** Yangzhou University

Thesis - Transformer neural network accelerator (FPGA)

Expected graduation - 2026

**Website** <https://english.yzu.edu.cn/>

09/2018 – 06/2022 Yangzhou, China

**BACHELOR OF ENGINEERING IN SOFTWARE ENGINEERING** Yangzhou University

Data Structure and Algorithms, Computer Hardware Technology, Computer Networks, Advanced Mathematics, Micro-computer principle, Software Data Analysis

**Address** Hanjiang District, Yangzhou, Jiangsu, China, 225012, Yangzhou, China | **Website** <https://english.yzu.edu.cn/> |

**Final grade** 3.57 (85%) | **Thesis** Convolutional Neural Network based Human Face Recognition

## ● WORK EXPERIENCE

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**EMBEDDED SYSTEMS DEVELOPER - INTERN – SEREAN SYSTEMS** – 01/12/2025 – Current – KUNSHAN, CHINA

- Designing and developing Delta PLC and Delta HMI-based automation systems.
- Assisting with handling a new software project (Serean Systems)

**COMPETITION: THE 7TH CHINA GRADUATE STUDENT "CHIP" INNOVATION COMPETITION "CHINA OPTICS VALLEY || HUAWEI CUP" – PROJECT: FPGA-BASED IOT INTRUSION DETECTION** – 20/07/2024

School: Yangzhou University

Team: Hidden Blue

Members: Cao Ying, Ding Hongwei, Md Imran Khan

Mentor: Cao Yongzhong

**EMBEDDED SYSTEMS SOFTWARE DEVELOPER - REMOTE PART-TIME – RC PRODUCT BD** – Current – DHAKA, BANGLADESH

**Website:** [www.rcproductbd.com](http://www.rcproductbd.com)

Programming and debugging for new product.  
writing C++ code for MCU such as STM32, and interfacing with other hardware.  
Schematic design.

Project: IoT system development for household appliances. Tasks: Configuring and testing a series of components, application software and system management tools.

## PUBLICATIONS

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2025

### [\*\*FPGA-Optimized Transformer Network Accelerator with Efficient Softmax and Sparsity-Aware Gating\*\*](#)

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**Authors:** Md Imran Khan, Yongzhong Cao | **Journal Name:** IEEE Embedded Systems Letters (Early access) | **Publisher:** IEEE

2023

### [\*\*Structural analysis and material selection for biocompatible cantilever beam in soft robotic nanomanipulator\*\*](#)

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Uddin, M. S., Khan, M. I., Shafiq, S. B. BIBECHANA, 20(2), 183–189

## LANGUAGE SKILLS

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Mother tongue(s): **BENGALI**

Other language(s): **CHINESE (HSK 3)** | **ENGLISH B2 (IELTS 6.0) 2023** | **HINDI**

## HOBBIES AND INTERESTS

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**Playing Guitar, Flying drones, Aerial photography, FPP Games, Tour**

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## SKILLS

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### **Programming languages**

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Python, C/C++, Verilog (HLS), MATLAB

### **Hardware skills**

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PLC, FPGA, Linux OS, STM32/Arduino, Sensor interfacing, debugging basic electrical and electronic systems. PCB designing (EasyEDA)

### **Machine learning frameworks**

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OpenCV, TensorFlow, PyTorch, NumPy

## RESEARCH INTERESTS

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### **Robotics and IoT**

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Soft robots, FPGA, Nano Drones, Agricultural robotics, Embedded Systems, Space robotics and autonomous systems

### **Machine Learning and Computer Vision**

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Computer vision and image processing, 3D vision, Multimodal Learning

### **UAV - Remote sensing**

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GeoAI, GIS, Remote sensing and IoT to improve safety and efficiency in construction, agriculture and rescue missions. 3D mapping.