

Hussien Ahmad

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Education

Ain Shams University

JUNE 2025

Bachelor of Computer Engineering and Software Systems

GPA: 3.01

Related Courses: Electronic Design Automation – Design of Compilers – Data Structures – Algorithms – Advanced Software Engineering – Databases – Agile Software Engineering – Internet Programming – Software Testing – Artificial Intelligence – Operating Systems – Computer Organization & Architecture

PROJECTS

Smart Home Security System

MAY 2024

- Implemented the security system using arduino uno and the specific sensors needed.
- utilized SIM808 to have a communication between arduino and phone in case of any intrusion.

Smart Home (Embedded)

JUL 2023

- Utilized LI-FI technology and multiple sensors for smart home application
- Utilized microcontroller TIVA c tm4c123gh6pm to implement the system
- Implemented using embedded c

Car windows System (RTOS)

MAY 2023

- Developed in embedded C passenger window control system.
- Implemented using embedded c and freeRTOS.

Distributed image proccesing over AWS

MAY 2024

- Implemented an distributed computing application over virtual machines on AWS cloud service.
- Utilized python and MPI.

Automatic Parallelization Research Paper

MAY 2024

- Wrote research paper about automatic parallelization using cetus and PLUTO tools, I have made performance analysis for the output parallel code and conclusions.

Verilog parser & ATM system

JAN 2023

- Implemented a verilog parser using python.
- Implemented FSM system for ATM using verilog.

Minix Scheduler

JAN 2023

- Implemented, tested, and integrated different scheduling algorithms (Round Robin, Shortest Job First (SJF), Priority-based, Multi-Level Feedback Queue) in Minix, an Open-source C Operating system.

MIPS processor

MAY 2022

- Implemented A single-cycle MIPS processor (CPU) with all the operations to run MIPS assembly code. Implemented using VHDL.

GYM and Bank Management System

AUG 2022

- Implemented using Java and object oriented programming concepts, abstraction, encapsulation , polymorphism and inheritance.

Peer to Peer chatting application

MAY 2022

- Implemented a chatting application using python and socket library to facilitate communication among peers.

Real Estate Website

JAN 2022

- Implemented using Nodejs , mongoDB , Expressjs and Reactjs.

Github Link: [Click Here](#)

SKILLS

Technologies

- RTOS
- ARM
- mongoDB
- Expressjs
- Reactjs

- Git&Github

Programming Languages

- Embedded C
- C++
- Java
- Python

- HTML/CSS
- JavaScript
- SQL

LANGUAGES

- Arabic (Native)

- English (Fluent)

- Deutsch (Elementary)