

MD HEDAYETUL ISLAM CHY

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OBJECTIVE

I'm an electrical engineer specializing in embedded systems, medical image processing and occasionally designing and coding. Currently, I'm focused on Bio-surface and Biomedical Engineering.

EDUCATION

Master of Computer Science, University of Chittagong

Expected 2023

Bachelor of Computer Science, University of Chittagong

2017 - 2021

CGPA: 3.36

SKILLS

Electrical	PSpice, Proteus, Diptrace, Solidworks PCB, Soldering, Wiring
Mechanical	Solidworkd3D, Ansys Fluent, CFD, Surface modelling, Strength analysis
Coding	Python, MATLAB, Javascript, dart
Linux	UbuntuOS, KaliOS, Raspbian
Web server	Flask, Django, Nodejs
Editing tools	Illustrator, PremierePro, Photoshop, etc.
Others	Flutter, Arduino, Raspberry pi, Deep Learning, Microsoft Azure services, Virtual machine, GCP, Docker, Etc.

PROJECTS AND THESIS

Surface Engineering

Nov 2021 - on going

- Design a surface to reduce the splashing of liquid. Doing a lot of simulation using Ansys fluent.
- Applying different Fluid Physics Simulation
- Properties of different material (PDMS, Resin, plastic), gather data by designing 3D surface model.

Covid-19 ICU Monitoring

Aug 2020 - Mar 2021

- Experienced how a project becomes a product. A system that helps hospital personnels to monitoring patient bedside display real-time from non-covid space.
- Using light weight Flask framework with Nginx reverse proxy server in Raspberry pi.
- Esp-32 camera for capturing image and send using TCP/IP protocol.
- Learn OpenCV and TesseractOCR for extracting data and various image processing algorithm.
- An app that can query data from SQL data base.

AWARD AND TRAINING

- ICT Division Fellowship, awarded by Government of the People's Republic of Bangladesh, Bangladesh to support research in the field of bio-surface, 2023
- Former trainee, Ghorashal Training Center, Bangladesh Power Development Board, Palash, Narsingdi, 2021
- One of the top three team selected for National Hackathon 2019. - AI and ML recognized stereo camera for Occupational Health and Safety

INTEREST

- Games: Table tennis, Carrom, Pubg mobile, Cricket, Football
- Cycling, Music, Travelling