

MD HEDAYETUL ISLAM CHY

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I am an electrical engineer with a specialization in embedded systems, bio-surface modeling, medical image processing and coding. Currently, I'm fully captivated in the field of Biomedical Engineering, where I harness my expertise to drive innovation and make positive impact.

ACADEMIC CREDENTIALS

Master of Electrical and Electronic Engineering , University of Chittagong	Expected 2023
Bachelor of Electrical and Electronic Engineering , University of Chittagong	2017 - 2021
CGPA: 3.36	

WORK EXPERIENCE

Stellar , R&D Engineer(UprintBD)	July 2022 - on going
<ul style="list-style-type: none">Reconfigured printing devices and developed a mobile app service alongside web server for accelerating cloud printing services.	

THESIS AND PROJECT

Surface Engineering	Nov 2021 - on going
<ul style="list-style-type: none">Design a surface to reduce the splashing of liquid. Doing a lot of simulation using Ansys fluent.Applying different Fluid Physics SimulationProperties of different material (PDMS, Resin, plastic), gather data by designing 3D surface model.	
Covid-19 ICU Monitoring	Aug 2020 - Mar 2021
<ul style="list-style-type: none">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

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- 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, Title: AI and ML recognized stereo camera for Occupational Health and Safety

SKILLS

Electrical & Mechanical	PSpice, Proteus, Diptrace, Solidworks3D, Ansys Fluent, 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.