

# MD HEDAYETUL ISLAM CHY

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## ACADEMIC CREDENTIALS

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**Master of Electrical and Electronic Engineering**, University of Chittagong

Expected 2023

**Bachelor of Electrical and Electronic Engineering**, University of Chittagong

2017 - 2021

CGPA: 3.36/4.00

## WORK EXPERIENCE

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**UprintBD**, R&D Engineer

July 2022 - present

- Reconfigured printing devices and developed a mobile application alongside server for accelerating cloud printing services.

## THESIS AND PROJECT

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**Surface Engineering**

Nov 2021 - June 2023

- Designed 3D printed surfaces to reduce fluid splashing and investigated simulations through Ansys Fluent.
- Applying different CFD methods such as Volume of Fluid, Eulerian method etc.
- Optimized various parameters and analyzed the structure with materials such as SLA-resin and PDMS.

**Covid-19 ICU Monitoring**

Aug 2020 - Mar 2021

- A system that assists hospital personnel in real-time monitoring of patients' bedside displays from a non-covid space. Experienced how a project becomes a product.
- Developed a Python Wrapper for conducting image processing and character recognition algorithms.
- Esp-32 camera for capturing image and send using TCP/IP protocol.
- Devised an cross-platform application that maintain communication with server.

## PUBLICATIONS

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- **Design optimization of anti-splashing targets and simulation of droplet impact on it** (Under review)  
*Physics of Fluids - AIP Publishing LLC* 8 Sep,2023

## AWARD AND TRAINING

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- ICT Division Fellowship, awarded by the Government of the People's Republic of Bangladesh, to support research in the field of bio-surface, 2022
- 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

## TECHNICAL SKILLS

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**Electrical & Mechanical  
Coding**

PSpice, Proteus, Diptrace, Solidworks3D, Ansys Fluent  
Python (comfortable), MATLAB, dart

**Microcontrollers**

Raspberry pi, Esp32-cam, TTGO camera plus, Arduino

**ML/DL**

Tensorflow, Keras, Scikit-Learn

**Visualization**

OpenCV, OriginPro, ParaView etc

**Web server & OS**

Flask, Django, UbuntuOS, KaliOS, Raspbian

**Others**

Flutter, Illustrator, Microsoft Azure services, Virtual machine, GCP, Docker etc.