



Department of Electrical and Electronic Engineering  
Khulna University of Engineering & Technology  
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**Md. Kamrul Hasan**

Assistant Professor

**Research Area** Personal website at [Google Site](#) Watch my research outcomes at

[YouTube](#) Find me at [Google Scholar](#) Artificial

Intelligence Medical Image and Signal

Analysis

## Education

### Master of Science in Electrical and Electronic Engineering

Khulna University of Engineering & Technology (KUET), Bangladesh (2015-2017)

**Thesis Title:** [Effective Electrodes Position and Features Selection for EEG Based Epilepsy Detection](#)

### Master of Science in Medical Imaging and Applications

University of Burgundy (France), University of Cassino and Southern Lazio (Italy), and University of Girona (Spain), France, Italy, and Spain (2017-2019)

**Thesis Title:** [Detection, Segmentation, and 3D Pose Estimation of Surgical Tools Using Convolutional Neural Networks and Algebraic Geometry](#)

<https://www.sciencedirect.com/science/article/abs/pii/S1361841521000402>

### Bachelor of Science

Khulna University of Engineering & Technology (KUET), Khulna-9203, Bangladesh (2009-2014)

## Service Records

- **Assistant Professor (Part-time)**  
**Department/Section:** Electronics and Communication Engineering (ECE)  
**Khulna University (KU)** From 01-01-1970 to 01-01-1970
- **Assistant Professor (Part-time)**  
**Department/Section:** Electrical and Electronic Engineering (EEE)  
**North Western University (NWU)** From 01-01-1970 to 01-01-1970
- **Assistant Professor**  
**Department/Section:** Electrical and Electronic Engineering (EEE)  
**Khulna University of Engineering & Technology (KUET)** From 01-01-1970 to 01-01-1970
- **Lecturer**  
**Department/Section:** Electrical and Electronic Engineering (EEE)  
**Khulna University of Engineering & Technology (KUET)** From 01-01-1970 to 01-01-1970
- **Lecturer**  
**Department/Section:** Electrical and Electronic Engineering (EEE)  
**Daffodil International University (DIU)** From 01-01-1970 to 01-01-1970

## Research Interest

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### Artificial Intelligence

Deep Learning

Machine Learning

Convolutional Neural Networks

Transfer Learning

### Medical Image and Signal Analysis

Medical Image Classification/ Recognition

Medical Image Registration and Applications

Medical Image Segmentation and Applications

Computer Aided Surgery and Medical Robotics

Computer Aided Diagnosis

## Publication

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### Books

### Journals

1. Hasan,M. K. , Calvet,L. , Rabbani,N. and Bartoli,A. (2021) , " Detection, segmentation, and 3D pose estimation of surgical tools using convolutional neural networks and algebraic geometry," ***Medical Image Analysis***

### Conference