

## PERSONAL INFORMATION



## Zakia Khatun

Le Creusot, France

+33 7 49 41 14 79

<https://zakiakhatun.netlify.app/>

[u1958256@campus.udg.edu](mailto:u1958256@campus.udg.edu)

<https://www.linkedin.com/in/zakia-khatun/>

Sex Female

Date of birth 02/02/1996

Nationality Bangladeshi

## EDUCATION

10/09/2018 - 11/09/2020

## ERASMUS+ Joint Master Program in 'Medical Imaging and Applications'

EQF  
Level 7

University of Burgundy (France), University of Cassino & Southern Lazio (Italy) & University of Girona (Spain).

• Fully funded by the **European Union**.

• Earned 120 ECTS.

• Thesis Title: Survival Time Prediction of Metastatic Melanoma Patients by Computed Tomography using Convolutional Neural Networks.

• CGPA: 7.59 on a scale of 10.00.

10/05/2014 - 03/02/2018

## Bachelor of Science in Electrical &amp; Electronic Engineering

EQF  
Level 6

American International University-Bangladesh (AIUB), Bangladesh

• Earned 145 Credits, Major in 'Biomedical Instrumentation Measurement and Design'.

• Project Title: Gesture Controlled Pick and Place Robot (**Dean's Award Winner**).

• CGPA: 3.97 on a scale of 4.00.

## RESEARCH EXPERIENCE

## Pascal Institute – EnCoV Research Group (Master Thesis)

01/02/2020 - 24/07/2020

• Thesis:

[Survival Time Prediction of Metastatic Melanoma Patients by Computed Tomography using Convolutional Neural Networks](#)

University of Girona - UdG (M.Sc. 3<sup>rd</sup> Semester)

20/09/2019 - 08/01/2020

25/09/2019 - 05/01/2020

28/09/2019 - 05/01/2020

26/09/2019 - 03/01/2020

20/09/2019 - 02/01/2020

05/09/2020 - 07/01/2020

• Projects:

1. [To design, analyse and implement approaches for brain tissue segmentation](#)
2. [Developing Computer Aided algorithm for the diagnosis in histopathological images to classify benign vs malignant using deep learning approach](#)
3. [Developing Computer Aided Algorithm for the diagnosis in Dermoscopic images to classify melanoma vs all other types using deep learning approach](#)
4. [Image registration of chest CT volumes: 4DCT DIR-Lab Challenge](#)
5. [Demonstration of Medical Robotics in Spine Surgery using Tx60 Staubli Robot](#)

• Lecture Activity:

[What about being a neuropsychologist?](#)

University of Cassino and Southern Lazio (M.Sc. 2<sup>nd</sup> Semester)

25/02/2019 - 06/06/2019

20/02/2019 - 08/06/2019

02/03/2019 - 16/06/2019

18/02/2019 - 13/06/2019

• Projects:

1. [Breast Mass Detection using Machine Learning Algorithm](#)
2. [CT Reconstruction using Parallelization Strategy](#)
3. [Vision Application \(VIZN\)](#)
4. [Designing an Inverse Kinematics Controller](#)

University of Burgundy (M.Sc. 1<sup>st</sup> Semester)

15/09/2018 - 05/01/2019

21/09/2018 - 07/01/2019

15/09/2018 - 10/01/2019

19/09/2018 - 08/01/2019

• Projects:

1. [Automatic MRI Cardiac Segmentation in Short Axis for Left Ventricular Endocardium](#)
2. [Interest Points Detection on 3D Meshes Using Harris Operator](#)
3. [Face Recognition using Principal Component Analysis](#)
4. [Automated Inspection at soft drink bottling plant](#)

## American International University - Bangladesh (Undergraduate Final Year Project)

24/04/2017 - 02/12/2017

• Project: [Gesture Controlled Pick & Place Robot](#)

## RESEARCH SKILLS

Programming Languages  
Deep Learning Libraries  
Software  
Toolkit

- Python, MATLAB, C++
- TensorFlow, Keras
- Visual Studio C++, AutoCAD, Arduino IDE, Proteus, Multisim
- Elastix, ITK-Snap, MITK, DLTK, NiftyNet

## HONOURS AND ACHIEVEMENTS

- Erasmus+ Joint Master's Degree (EMJMD) **scholarship** in *Medical Imaging and Application* program (funded by European Union), covers full tuition fees and a monthly allowance (Total 42,000 EUR).
- **Dean's Award** for undergraduate final year project for securing 7<sup>th</sup> Place out of 180 projects/theses for the academic year of 2017-2018 at AIUB.
- Full time **merit-based scholarship** from American International University-Bangladesh (AIUB) for exceptional performance throughout the academic years (Around 300,000 BDT).
- **Dean's List Honour** for continuing academic excellence in each semester.

## CO-CURRICULAR ACTIVITIES

2016 - 2017

### Vice Chairperson

[IEEE AIUB Student Branch Women in Engineering Affinity Group \(WIE\)](#)

- Organizing different seminars and events specially for women empowerment.

04/12/2016 - 24/12/2016

### Member of Event Coordination Committee

[IEEE Region-10 Student Professional Awareness Venture \(SPAve\)](#), supported by IEEE USA

02/10/2016 - 04/11/2016

### Campus Ambassador

[IEEE Bangladesh Section SYW Congress 2016](#)

- Contacting organizational unit (section, student branch, affinity group etc.) chairs to inform them about IEEE Day.
- Communication with Ambassador on progression of planning events.

10/06/2016 - 22/07/2016

### Volunteer

[AIUB Engineering Jubilation-2016](#)

- Responsible for organizing events which includes public relations with students, arranging different competitions for students based on engineering knowledge.

## INVITED TALK

2019

### Guest Speaker

IEEE AIUB Student Branch

- [Seminar](#) on 'Road to Erasmus+ Scholarship', organized by IEEE AIUB Student Branch at American International University-Bangladesh.

## LANGUAGE SKILLS

Mother tongue

Bengali

Other language

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2
The Medium of Instruction and examination of both B.Sc. and M.Sc. Degree was English				

## REFERENCES

1. **Dr. Désiré Sidibé**  
Professor, Université Evry Val d'Essonne - Paris Saclay  
23 Boulevard François Mitterrand, 91000 Évry-Courcouronnes, Paris, France  
**Email:** [drodesire.sidibie@univ-evry.fr](mailto:drodesire.sidibie@univ-evry.fr)
2. **Md. Sania Rahman Zishan**  
Head of Computer Engineering (CoE) department  
Senior Assistant Professor, Dept. of Electrical and Electronic Engineering (EEE) & Computer Engineering (CoE), American International University-Bangladesh (AIUB)  
Kuratoli Road, Dhaka 1229, Bangladesh  
**Email:** [saniat@aiub.edu](mailto:saniat@aiub.edu)