

Md. Mehedi Hassan

Curriculum Vitae

Bagdanga, Sundarpur
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Career Objective

I want to be build a career in a institution. I enhance my professional skills in the best possible way and to keep abreast of new technology.

Educational Qualifications

- 2019-Now M.Sc. (Engineering) in Information and Communication Technology (ICT),**
Institution: Mawlana Bhashani Science and Technology University (MBSTU), Tangail, Bangladesh.
- 2015-2018 B.Sc. (Engineering) in Information and Communication Technology (ICT),**
Institution: Mawlana Bhashani Science and Technology University (MBSTU), Tangail, Bangladesh.
CGPA: 3.94 (Out of 4.00)
- 2014 Higher Secondary Certificate Examination,**
Institution: Nawabganj Government College, Chapai Nawabganj, Rajshahi,
Board: Rajshahi Education Board.
GPA: 5.00 (Out of 5.00)
- 2012 Secondary School Certificate Examination,**
Institution: Harimohan Government High School, Chapai Nawabganj, Rajshahi,
Board: Rajshahi Education Board.
GPA: 5.00 (Out of 5.00)

Work Experience

- 2020 - now** I don't have any work experience but as a fresher I will prove my skill and capability once the opportunity comes

Relevant Coursework (upto 8th semester)

- Computer Programming with Lab
- Electronics with Lab
- Object Oriented Programming with Lab
- Data Structure with Lab
- Discrete Mathematics
- Digital Logic Design with Lab
- Algorithm Design and Analysis with Lab
- Signals and Systems with Lab
- Numerical Methods with Lab
- Database Management Systems with Lab
- Computer Organization and Architecture
- Operating Systems with Lab
- Microprocessor and Assembly Language with Lab
- Analog and Digital Communication with Lab
- Computer Networks with Lab
- Computer Peripheral and Interfacing with Lab
- Microwave Communication and Radar with Lab
- Software Engineering with Lab
- Digital Signal Processing with Lab
- Network Security and Cyber Law
- Internet and Web Programming
- Artificial Intelligence with Lab
- Wireless and Mobile Communication with Lab
- Simulation and Modeling
- Optical Communication with Lab
- Data Mining
- Digital Image Processing with Lab

Bachelor Thesis

Title Design of Photonic Crystal Fibers with Supporting Orbital Angular Momentum Mode Transmissions for Optical Communications.

Impact Metrics (Till 11-08-2020)

1. 16 citations (Google Scholar)
2. h-index = 3
3. RG Score = 9.74 (ResearchGate)

Research Interests

1. Optical Communications
2. Surface Plasmon Resonance (SPR) based PCF
3. Machine Learning and Deep Learning

Research Details Links

Google Scholar <https://scholar.google.com/citations?user=K6aV0oQAAAAJ&hl=en>

ResearchGate https://www.researchgate.net/profile/Md_Hassan12

ORCID iD <https://orcid.org/0000-0002-5789-8013>

Journal Publications

1. **Hassan, M.M.**, Kabir, M.A., Hossain, M.N., Biswas, B., Paul, B.K. and Ahmed, K., 2020. Photonic crystal fiber for robust orbital angular momentum transmission: design and investigation. *Optical and Quantum Electronics*, 52(1), p.8. (**Publisher = Springer, Impact Factor = 1.61, Quartile Ranking = Q2**)
2. **Hassan, M.M.**, Kabir, M.A., Hossain, M.N., Nguyen, T.K., Paul, B.K., Ahmed, K. and Dhasarathan, V., 2020. Numerical analysis of circular core shaped photonic crystal fiber for orbital angular momentum with efficient transmission. *Applied Physics B*, 126(9), pp.1-8. (**Publisher = Springer, Impact Factor = 1.92, Quartile Ranking = Q1**)
3. Kabir, M.A., **Hassan, M.M.**, Hossain, M.N., Paul, B.K. and Ahmed, K., 2020. Design and performance evaluation of photonic crystal fibers of supporting orbital angular momentum states in optical transmission. *Optics Communications*, p.125731. (**Publisher = Elsevier, Impact Factor = 2.11, Quartile Ranking = Q1**)
4. Kabir, M.A., **Hassan, M.M.**, Ahmed, K., Rajan, M.M., Aly, A.H., Hossain, M.N. and Paul, B.K., 2020. Novel spider web photonic crystal fiber for robust mode transmission applications with supporting orbital angular momentum transmission property. *Optical and Quantum Electronics*, 52(7), pp.1-17. (**Publisher = Springer, Impact Factor = 1.61, Quartile Ranking = Q2**)
5. Kabir, M.A., Ahmed, K., **Hassan, M.M.**, Hossain, M.M. and Paul, B.K., 2020. Design a photonic crystal fiber of guiding terahertz orbital angular momentum beams in optical communication. *Optics Communications*, p.126192. (**Publisher = Elsevier, Impact Factor = 2.11, Quartile Ranking = Q1**)
6. Israk, M.F., Razzak, M.A., Ahmed, K., **Hassan, M.M.**, Kabir, M.A., Hossain, M.N., Paul, B.K. and Dhasarathan, V., 2020. Ring-based coil structure photonic crystal fiber for transmission of Orbital Angular Momentum with large bandwidth: Outline, investigation and analysis. *Optics Communications*, p.126003. (**Publisher = Elsevier, Impact Factor = 2.11, Quartile Ranking = Q1**)

Conference Publications

1. Hossain, M.M., Kabir, M.A., **Hassan, M.M.**, Parag, M.A.R., Hossain, M.N., Paul, B.K., Uddin, M.S. and Ahmed, K., 2020, February. Proposal of a Highly Birefringent Bow-Tie Photonic Crystal Fiber for Nonlinear Applications. *In International Conference on Cyber Security and Computer Science* (pp. 659-670). Springer, Cham.

Achievements and Certificates

Merit Scholarship	Department of Information and Communication Technology, Faculty of Engineering, Mawlana Bhashani Science and Technology University, in year 2016 and 2017
Award	5 th position of the MBSTU Math Olympiad 2016
Award	1 st position in the IT-Quiz contest of the IEEE MBSTU Student Branch Inauguration Program-2017
Participation Certificate	IT-Quiz contest of the IEEE MBSTU Student Branch Inauguration Program-2017
Participation Certificate	Seminar on "EDUCATION AND THE FOURTH INDUSTRIAL REVOLUTION" held in 27 July, 2019

Technical Skills

Programming Language	C, C++, Java, Basic Python
Database	MySQL
Web Development	HTML, CSS, PHP
Operating System	Microsoft Windows, Linux
Programming Tool	Code Blocks, Notepad++, Matlab, R-Studio, Anaconda, Oracle
Research Tools	Comsol Multiphysics, Matlab, Microsoft Word, Microsoft Excel and LaTeX

Other Skills

Bachelor Projects	Project on playing two funny native games using C++.
Problem Solving	100+ problem solving using C.
IEEE	Student Member (Since 2019)
IEEE SB	Chair at IEEE Computer Society MBSTU Student Branch
IEEE SB Program	IEEE Day Celebration

Language Skills

English	Good	[Second Language]
Bengali	Excellent	[Mother Tongue]

Personal Information

Name	Md. Mehedi Hassan
Father's Name	Md. Shamsul Hoque
Mother's Name	Most. Moslema Khatun

Date of Birth December 31, 1995
Blood Group O(+ve)
Religion Islam
Nationality Bangladeshi
Present Address Room Number 319 (Ka), Bangabondhu Sheikh Mujibur Rahman Hall (BSMRH), MBSTU
Permanent Address Bagdanga, Sundarpur, Nawabganj Sadar, Chapai Nawabganj, Bangladesh

References

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Dr. Muhammad Shahin Uddin
Professor and Chairman,
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Personal Statement

I believe myself, to be the clear and logical mind with a practical approach to problem-solving and in cordiality, interested in knowledge through completion of all commitments. I wish to involve myself for doing such innovative work that will contribute to put my knowledge in practical use. I will also be dedicated by applying my skills to contribute towards the institution goal.

Sincerely,
Md. Mehedi Hassan