Curriculum Vitae

Md. Naimur Rahman

Professor
Department of Electrical and Electronics Engineering
Patuakhali Science and Technology University
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Career Objective

Exploiting my education, technical skills and knowledge on Computer Science and Electrical Engineering to spread it among others, explore new challenges on the area of my research interest and pursue a successful career in the field of Computer Science and Engineering.

Education

M.Sc. Engineering in Electrical, Electronics and Systems Engineering

Institution Name	:	Universiti Kebangsaan Malaysia (UKM), Malaysia
Department	:	Electrical, Electronics and Systems Engineering
Year	:	2018
Thesis Title	:	Design and Development of Wideband Microstrip Patch Antennas for Microwave Sensor Applications

B.Sc. Engineering in Computer Science and Engineering

Institution Name	:	Patuakhali Science and Technology University (PSTU), Bangladesh
Faculty		Computer Science and Engineering
Year	:	2011
CGPA	:	3.92 in a scale of 4.00 (Position: First)
Thesis Title	:	Genetic Relationship between Species Using Protein Sequence Alignment

Higher Secondary Certificate (HSC)

Institution Name	:	Amrita Lal Dey College, Barisal. Bangladesh.
Group	:	Science
Year	:	2005
Board	:	Barisal
CGPA	:	4.90 in a scale of 5.00

Secondary School Certificate (SSC)

Institution Name	:	Mahilara A.N. High School, Gournadi, Barisal. Bangladesh
Group		Science
Year	:	2003
Board	:	Barisal
CGPA	:	4.63 in a scale of 5.00

Employment

Professor
Department of Electrical and Electronics Engineering
Patuakhali Science and Technology University
Dumki, Patuakhali-8602, Bangladesh
November, 2023 – Present

Associate Professor
Department of Electrical and Electronics Engineering
Patuakhali Science and Technology University
Dumki, Patuakhali-8602, Bangladesh
November, 2019 – November, 2023

Assistant Professor
Department of Electrical and Electronics Engineering
Patuakhali Science and Technology University
Dumki, Patuakhali-8602, Bangladesh
November, 2015 – November, 2019

Lecturer
Department of Electrical and Electronics Engineering
Patuakhali Science and Technology University
Dumki, Patuakhali-8602, Bangladesh
November, 2012 – November, 2015

Research Interest

- ✓ Microwave Communication
- ✓ Machine Learning
- ✓ Natural Language Processing
- ✓ Internet of Things (IoT)
- ✓ Wireless Propagation
- ✓ Microwave Sensors
- ✓ Wireless Security

Research Project

- Worked as PI of the project **"Development of Smart Health Monitoring System Using Internet of Things (IoT)"** funded by Ministry of Education of Bangladesh.
- Worked as PI of the project **"Development of Zero Waste Management System Using Microwave Sensor and IoT Based Smart Garbage Bin"** funded by University Grants Commission of Bangladesh.
- Worked as PI of the project **"Design and development of a USB Antivirus for Patuakhali Science and Technology University"** funded by Patuakhali Science and Technology University.
- Working as PI of the project **"Internet of Things (IoT) Based Smart Water Quality Monitoring System"** funded by Patuakhali Science and Technology University.

Special Training and/or Course Taken

- ✓ Participated in a **"**Training of Trainers (ToT) on ITEE**"** held at Bangladesh Com**puter Council (BCC) Auditorium**, Dhaka**, Bangladesh.**
- ✓ Participated in a Workshop on "Electrical Safety: Power Transmission and Distribution for Coastal Area of Bangladesh" jointly organized by the Bangladesh Energy and Power Research Council (BEPRC) and Patuakhali Science and Technology University (PSTU)**.**
- ✓ Participated in "Malaysia-Japan Workshop on Radio Technology (MJWRT'17)" and presented a paper.
- ✓ Participated in "Bengkel Pemantapan Penyelidikan dan Penerbitan ANGKASA 2016" and present a paper.
- ✓ Presented a paper on "DNA Based Computing" in PSTU.
- ✓ Participated in a Seminar on Wireless Sensor Network at PSTU.
- ✓ Participated in a Seminar on WiMAX for Digital Bangladesh at PSTU.
- ✓ Participated in a Seminar on Bangladesh Research and Education Network (Bd. REN) at PSTU.

Achievements

- ✓ Obtain **Chancellor Gold Medal** for the outstanding result in Bachelor degree.
- ✓ Obtain **Prime Minister Gold Medal** for the outstanding result in Bachelor degree.
- ✓ **University Grants Commission (UGC) Merit Scholarship** for the result of Bachelor degree.
- ✓ **Dean's Merit Scholarship** in all semesters in PSTU.
- ✓ Obtain **GPA 4.00 in the scale of 4.00** in two semesters.
- ✓ **Barisal Board Scholarship** for the result of SSC examination.
- ✓ **Barisal Board Scholarship** for the result of HSC examination.
- ✓ **Runner-up- Bengali Hand-writing Competition** in National Educational Week 2002.

Experiences in Academic and Residential Duties of University

- ✓ **Assistant Transport Officer,** PSTU
- ✓ **Vigilance Team Member,** PSTU Campus
- ✓ **Assistant Proctor,** PSTU
- ✓ **Assistant Transport Officer,** PSTU
- ✓ **Member,** Student Advisory Committee, Faculty of CSE, PSTU
- ✓ **Officer in Charge,** IT Centre, PSTU.

Working Experiences

- ✓ **Member,** Syllabus Committee, CSE faculty.
- ✓ **Member,** Examination Committee" of CSE faculty.
- ✓ **Member,** Independence Day IT carnival-2015, CSE faculty.
- ✓ **Member,** Ek Jugopurti-2016 (One Era celebration program), CSE faculty.
- ✓ **Member Secretary,** Technical Committee, PSTU admission test 2019-2020.
- ✓ **Member Secretary,** Technical Committee, PSTU admission test 2018-2019.
- ✓ **Member,** Technical Committee, PSTU admission test 2014-2015.
- ✓ **Member,** Technical Committee, PSTU admission test 2013-2014.
- ✓ **Member,** Technical Committee, PSTU admission test 2012-2013.
- ✓ **Member Secretary,** Independence Day IT carnival-2019, CSE faculty.

Communication Skill

- ✓ Excellent verbal and written skill in both Bengali and English.
- ✓ Flexible, adaptable, and both willing and able to learn quickly.
- ✓ Constructive and diplomatic team player with strong communication skills.
- ✓ Capable of working efficiently under high pressure.

Google Citation Report: Citations: 446, h-index: 12, i10-index: 17

Number of publications: International: 36, National: 05

Published Book

Md. Naimur Rahman, Md. Abdul Masud, Md. Samsuzzaman, Genetic Relationship between Species Using Protein Sequence Alignment. LAP LAMBERT Academic Publishing GmbH & Co. Germany. ISBN-978-3-8454-3520-6.

Book Chapter

Rahman, M.N., Beng, G.K., Samsuzzaman, M., Alam, T. and Islam, M.T., 2018. Design and Analysis of an Optimized S-shaped Resonator Based Triple Band Microstrip Antenna for Satellite Applications. In *Space Science and Communication for Sustainability* (pp. 253-263). Springer, Singapore.

List of Major Scientific Journal Publications

1. Rahman, M.N., Islam, S.T., Maniruzzaman, M. and Islam, M.T., 2025. Salinity and Sugar Content Detection by Wideband Microwave–Based Patch Antenna Sensor. *Journal of Electrical and Computer Engineering*, *2025*(1), p.4813865. (Indexed in ISI & SCOPUS)(Impact Factor-**1.1)Q2.**
2. Islam, M.T., **Rahman, M.N**., Singh, M.S.J. and Samsuzzaman, M., 2018. Detection of Salt and Sugar Contents in Water on the Basis of Dielectric Properties Using Microstrip Antenna-Based Sensor. *IEEE Access*, *6*, pp.4118-4126. (Indexed in ISI & SCOPUS)(Impact Factor-**3.244)Q1.**
3. Islam, Mohammad T., **Rahman, Md. N**., Samsuzzaman, Md., Mansor, Mohd F., Misran, Norbahiah. 2018. "Resonator-Inspired Metamaterial Sensor: Design and Experimental Validation for Measuring Thickness of Multi-Layered Structures." *Sensors 18, no. 12*: 4213. (Indexed in ISI & SCOPUS)(Impact Factor-**2.454)Q1**
4. **Rahman, N.**, Islam, M.T. and Mahmud, Z., 2018. The Broken-Heart Printed Antenna for Ultrawideband Applications: Design and Characteristics Analysis. *IEEE Antennas and Propagation Magazine*. (Indexed in ISI & SCOPUS)(Impact Factor-**3.007)Q2**
5. Islam, M.T., **Rahman, M.N.**, Mahmud, M.Z., Ullah, M.A., Samsuzzaman, M. and Singh, M.J., 2018. Investigation of a resonator-based metamaterial for sensor applications. *Applied Physics A*, *124*(2), p.109. (Indexed in ISI & SCOPUS)(Impact Factor-**1.545)Q3**
6. **Rahman, M.N**., Islam, M.T. and Sobuz, M.S., 2018. Microwave measurement system to detect salt and sugar concentration. *Microwave and Optical Technology Letters*, *60*(7), pp.1772-1774. (Indexed in ISI & SCOPUS)(Impact Factor-**0.731)Q4**
7. **Rahman, M.N.**, Islam, M.T. and Samsuzzaman, M., 2018. Detection of different concentrated salt and sugar solution based on dielectric properties using microstrip technology. *Microwave and Optical Technology Letters*, *60*(6), pp.1573-1577. (Indexed in ISI & SCOPUS)(Impact Factor-**0.731)Q4**

8. **Rahman, M.N**., Islam, M.T. and Samsuzzaman Sobuz, M., 2018. Salinity and sugar detection system using microstrip patch antenna. *Microwave and Optical Technology Letters*, *60*(5), pp.1092-1096. (Indexed in ISI & SCOPUS)(Impact Factor-**0.731)Q4**
9. **Rahman, M.N.**, Islam, M.T. and Samsuzzaman, M., 2018. Development of a microstrip based sensor aimed at salinity and sugar detection in water considering dielectric properties. *Microwave and Optical Technology Letters*, *60*(3), pp.667-672. (Indexed in ISI & SCOPUS)(Impact Factor-**0.731)Q4**
10. **Md. Naimur Rahman**, Sayed Amirul Hassan, Md. Samsuzzaman, Mandeep Singh Jit Singh, Mohammad Tariqul Islam, 2018. Determination of salinity and sugar concentration using microwave sensor. *Microwave and Optical Technology Letters*, *61*(2), pp.361-364. (Indexed in ISI & SCOPUS)(Impact Factor-**0.731)Q4**
11. **Rahman, M.N**., Islam, M.T. and Samsuzzaman, M., 2018. Design and analysis of a resonator based metamaterial for sensor applications. *Microwave and Optical Technology Letters*, *60*(3), pp.694-698. (Indexed in ISI & SCOPUS)(Impact Factor-**0.731)Q4**
12. **Rahman, M.N.**, Islam, M.T., Mahmud, M.Z. and Samsuzzaman, M., 2017. Compact microstrip patch antenna proclaiming super wideband characteristics. *Microwave and Optical Technology Letters*, *59*(10), pp.2563-2570. (Indexed in ISI & SCOPUS)(Impact Factor-**0.731)Q4**
13. **Rahman, M.N**., Islam, M.T. and Md. Samsuzzaman, S., 2018. Resonator based metamaterial sensor to detect unknown materials. *Microwave and Optical Technology Letters, 60(7)*, pp.1681-1685. (Indexed in ISI & SCOPUS)(Impact Factor-**0.731)Q4**
14. **Rahman, M.N.**, Islam, M.T., Mahmud, M.Z., Kibria, S. and Samsuzzaman, M., 2017. Broken-heart shaped microstrip patch antenna design for ultra-wideband applications. *Microwave and Optical Technology Letters*, *59*(9), pp.2324-2330. (Indexed in ISI & SCOPUS)(Impact Factor-**0.731)Q4**
15. Islam, M.T., Samsuzzaman, M., **Rahman, M.N**. and Islam, M.T., 2018. A compact slotted patch antenna for breast tumor detection. *Microwave and Optical Technology Letters*, *60*(7), pp.1600-1608. (Indexed in ISI & SCOPUS)(Impact Factor-**0.731)Q4**
16. Mahmud, M.Z., Islam, M.T., **Rahman, M.N**., Alam, T. and Samsuzzaman, M., 2017. A miniaturized directional antenna for microwave breast imaging applications. *International Journal of Microwave and Wireless Technologies*, *9*(10), pp.2013-2018. (Indexed in ISI & SCOPUS)(Impact Factor-**0.976)Q4**
17. Samsuzzaman, M., Islam, M.T., Faruque, M.R.I. and **Rahman, M.N.**, 2017. Bandwidth Enhancement of an N-Shaped Planar Antenna Using a Shorting Pin. *ELECTRONICS WORLD*, *123*(1972), pp.38-40. (Indexed in ISI & SCOPUS)(Impact Factor-**0.026)Q4**
18. **Rahman, M.N.,** Samsuzzaman, M., and Islam, M.T., 2019. Resonator Based Metamaterial Sensor for Detecting Unknown Materials. *ELECTRONICS WORLD*, *125*(1990), pp.24-25. (Indexed in ISI & SCOPUS)(Impact Factor-**0.026)Q4**
19. Samsuzzaman, M., Shawon, M.F.K., Bepery, C. and **Rahman, M.N**., 2017. High Gain Circularly Polarized S-Band Patch Antenna for Small Satellite Applications. *Int. J. Innov. Res*, *2*(2), pp.33-37.

List of International Conference Publications

1. Islam, M.T., Samsuzzaman, M., **Rahman, M.N.** and Islam, M.T., 2017, September. Miniaturized UWB antenna with excellent frequency ratio and bandwidth enhancement for wireless applications. In *Advances in Electrical Engineering (ICAEE), 2017 4th International Conference on* (pp. 80-83). IEEE.
2. **Rahman, M.N**., Islam, M.T., Misran, N. and Samsuzzaman, M., 2017, November. A

tuning fork-shaped microstrip patch antenna for X-band satellite and radar applications. In *Electrical Engineering and Informatics (ICEEI), 2017 6th International Conference on* (pp. 1-2). IEEE.

3. **Rahman, M.N**., Islam, M.T., Singh, M.S.J., Misran, N., Mat, K. and Samsuzzaman, M., 2017, November. Compact microstrip patch antenna for multi-service wireless communications. In *Microwave Conference (APMC), 2017 IEEE Asia Pacific* (pp. 1048-1050). IEEE.
4. Das, S., Samsuzzaman, M., **Rahman, M.N.**, Islam, M.T. and Islam, M.T., 2018, February. Broadband Elliptical Slotted Patch Antenna for 5G Communications. In *2018 International Conference on Computer, Communication, Chemical, Material and Electronic Engineering (IC4ME2)* (pp. 1-4). IEEE.
5. Rahman, M.A., Samsuzzaman, M., **Rahman, M.N.**, Islam, M.T. and Islam, T., 2017, December. 3D double S-shaped unidirectional antenna for microwave imaging. In *Telecommunications and Photonics (ICTP), 2017 IEEE International Conference on* (pp. 183-186). IEEE.
6. **Rahman, M.N**., Islam, M.T., Singh, M.S.J. and Misran, N., 2018, May. Depiction of a Circulated Double Psi-Shaped Microstrip Antenna for Ku-Band Satellite Applications. In *2018 IEEE International Conference on Electro/Information Technology (EIT)* (pp. 0189-0190). IEEE.
7. Samsuzzaman, M., **Rahman, M.N.**, Islam, M.T. and Mahmud, Z., 2017, July. A Compact Metamaterial Based Dual Band Patch Antenna for GPS L1/GS Applications. In *International Conference on Metamaterials, Photonic Crystals and Plasmonics, 2017 META Conference.*
8. Islam, M.T., Farhad, A., **Rahman, M.N.**, and Alam, T., 2017, July. Cost Effective Negative Indexed EMTM for Specific Absorption Rate Reduction. In *International Conference on Metamaterials, Photonic Crystals and Plasmonics, 2017 META Conference.*
9. Alam, T., Ullah, A., **Rahman, M.N.**, and Islam, M.T., 2017, July. A Meta-Inspired Multi-Standard Wideband Antenna for Mobile Applications. In *International Conference on Metamaterials, Photonic Crystals and Plasmonics, 2017 META Conference.*
10. Islam, M.T., Ullah, A., **Rahman, M.N.**, and Ali, T., 2017, July. A Metamaterial Inspired Patch Antenna for Handheld Mobile Communication. In *International Conference on Metamaterials, Photonic Crystals and Plasmonics, 2017 META Conference.*

References

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Signature:

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