

Dr. Muhammad Asad Rahman

Professor

Room – 2225, Academic building-2

Department of Electrical and Electronic Engineering

Chittagong University of Engineering & Technology

Chattogram-4349, Bangladesh

Mobile: +880 1715 612240

E-mail: asad31@cuet.ac.bd, asad31eee@gmail.com

Website: <https://www.cuet.ac.bd/members/536>

VISION _____

I aim to secure an honest, respectable, and challenging career in antennas and wireless propagation. I aspire to achieve this through working with a well-reputed institution/company, where my academic proficiency, technical skills, and creativity, honed through my academic qualifications, will be utilized to their full potential.

ACADEMIC QUALIFICATIONS _____

Doctor of Philosophy in Communication Engineering

- Institution : Saga University
- Completion : September, 2018
- Thesis Title : **“Circular Polarization and Reconfigurable Microstrip Antennas for Advanced Wireless Communication Systems”**
- Supervisor : [Professor Dr. Ichihiko Toyoda](#), *Graduate School of Science and Engineering, Saga University, 1 Honjo-machi, Saga-840-8502, Japan.*

Master of Science in Electrical and Electronic Engineering

- Institution : Chittagong University of Engineering and Technology
- Completion : October, 2014
- Thesis Title : **“Design of Large Scale Extensible Microstrip Array Antenna for Circular Polarization”**
- Supervisor : [Professor Dr. Quazi Delwar Hossain](#), *Department of Electrical and Electronic Engineering, Chittagong University of Engineering & Technology, Chittagong-4349, Bangladesh.*

Bachelor of Science in Electrical and Electronic Engineering

- Institution : Chittagong University of Engineering and Technology
- Completion : July, 2009

- Thesis Title : **“Design and Performance Analysis of a Low-cost Wind Velocity Meter”**
- Supervisor : [Professor Dr. Mohammad Rafiqul Alam](#), *Department of Electrical and Electronic Engineering, Chittagong University of Engineering & Technology, Chittagong-4349, Bangladesh.*

WORK EXPERIENCES _____

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|---|-------------------------------|
| Professor Department of Electrical and Electronic Engineering Chittagong University of Engineering and Technology, Bangladesh | July 2022 - Present |
| Associate Professor Department of Electrical and Electronic Engineering Chittagong University of Engineering and Technology, Bangladesh | February 2021 - July 2022 |
| Assistant Professor Department of Electrical and Electronic Engineering Chittagong University of Engineering and Technology, Bangladesh | February 2014 - February 2021 |
| Lecturer Department of Electrical and Electronic Engineering Chittagong University of Engineering and Technology, Bangladesh | April 2011 - February 2014 |
| Lecturer Department of Electrical and Electronic Engineering International Islamic University Chittagong (IIUC), Bangladesh | August 2009 - April 2011 |

PROFESSIONAL ACTIVITIES _____

- **Reviewer:** PLOS ONE, International Journal of RF and Microwave Computer-Aided Engineering, International Journal of Antennas and Propagation, Journal of Electrical and Computer Engineering, International Journal of Biomedical Imaging, Progress in Electromagnetics Research.
- **Technical Program Committee Member:** 3rd International Conference on Electrical, Computer and Communication Engineering (ECCE 2023), Chattogram, Bangladesh. 12th International Conference on Electrical and Computer Engineering (ICECE), Dhaka, Bangladesh. 6th International Conference on Electrical Information and

Communication Technology, Khulna, Bangladesh. 26th International Conference on Computer and Information Technology, Cox's Bazar, Bangladesh. 9th IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering, Thiruvananthapuram, Kerala, India.

AWARDS _____

- **Best Paper Award** in the 'Telecommunication' category for the presented paper "*A Branch-Line Coupler Feed MIMO Antenna for Circular Polarization Diversity*" in the ICTP 2023 conference held in Dhaka, Bangladesh.
- **3rd Best Paper Award** for the presented paper "*A Gunn Diode Based Self-Oscillating Active Integrated Array Antenna With a Concept for Beamwidth Controllability*" in the ICTP 2021 conference held in Dhaka, Bangladesh.
- **2nd Best Paper Award** for the presented paper "*Design of an ITO Based CNT Coated Transparent Nano Patch Antenna Assisted by Characteristic Mode Analysis*" in the ICAEE 2019 conference held in Dhaka, Bangladesh.
- **2017 IEEE AP-S Japan Student Award** for the paper "*A frequency diversity reconfigurable antenna with circular polarization switching capability*" presented in 2017 IEEE AP-S Symp. Antennas and Propag. and URSI CNC/USNC Joint Mtg. (AP-S/URSI 2017), San Diego, CA, USA.

SCHOLARSHIPS _____

- MEXT Scholarship: 2015-2018
- University Merit Scholarship: 2005-2008

LIST OF PUBLICATIONS _____

JOURNAL PUBLICATIONS:

2024

1. S. Chakraborty, **M. A. Rahman**, M. A. Hossain, E. Nishiyama, and I. Toyoda, "A novel dual-band elliptical ring slot MIMO antenna with orthogonal circular polarization for 5G applications," *Helvion*, vol. 10, No. 13, pp. Jul. 2024
2. S. J. Mishu, **M. A. Rahman**, and N. Dhar, "High FoM quad-band THz perfect metamaterial absorber-based RI sensor for gas sensing applications," *Electronics Letters*, vol. 60, No. 10, pp. 1-4, Apr. 2024.
3. D. Das, M. F. Hossain, M. A. Hossain, **M. A. Rahman**, M. M. Hossain, M. Hossam-E-Haider, "Phase delay through slot-line beam switching microstrip patch array antenna

design for sub-6 GHz 5G band applications,” *International Journal of Electrical and Computer Engineering (IJECE)*, vol. 14, no. 2, pp. 1625–1633, Apr. 2024.

4. S. J. Mishu, **M. A. Rahman**, N. Dhar, “Highly sensitive refractive index sensing with a dual-band optically transparent ITO-based perfect metamaterial absorber for biomedical applications,” *Heliyon*, vol. 10, no. 5, pp. 1–14, Mar. 2024.

2023

5. **M. A. Rahman**, M. S. Islam, M. S. Hossain, M. Hasan, E. Nishiyama, I. Toyoda, “A penta-band microstrip slot antenna for S-, C- and X-band applications,” *Electronics Letters*, vol. 59, no. 23, pp. 1–3, Dec. 2023.
6. M. A. Hossain, **M. A. Rahman**, A. H. Murshed, E. Nishiyama, I. Toyoda, “A simple design and fabrication of polarization reconfigurable antenna for industrial scientific and medical-band applications,” *International Journal of Electrical and Computer Engineering (IJECE)*, vol. 13, no. 2, pp. 1580–1587, Apr. 2023.

2022

7. M. A. Hossain, A. H. Murshed, **M. A. Rahman**, E. Nishiyama, I. Toyoda, “A novel dual-band slot-ring array antenna using both-sided MIC technology for polarization detection,” *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 32, no. 11, pp. 1–8, Oct. 2022.
8. **M. A. Hossain**, A. H. Murshed, M. A. Rahman, E. Nishiyama, I. Toyoda, “A gain enhanced linear polarization switchable array antenna with switching diodes,” *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 32, no. 10, pp. 1–9, Sep. 2022.
9. H. Murshed, M. A. Hossain, **M. A. Rahman**, E. Nishiyama, I. Toyoda, “Design and characterization of polarization reconfigurable heart shape monopole antenna for 2.4 GHz application,” *International Journal of Electrical and Computer Engineering (IJECE)*, vol. 12, no. 4, pp. 3808–3819, Aug. 2022.

2021

10. **M. A. Rahman**, M. S. U. Chowdhury, M. A. Hossain, and A. T. Mobashsher, “Numerical Analysis of a ITO Based Circularly Polarized Optically Transparent THz Antenna Employing Characteristic Mode Analysis,” *Progress in Electromagnetics Research C*, vol. 117, pp. 1-16, Nov. 2021.

2020

11. S. Chakraborty, **M. A. Rahman**, M. A. Hossain, A. T. Mobashsher, E. Nishiyama, and I. Toyoda, "A 4 element MIMO antenna with orthogonal circular polarization for sub 6 GHz 5G cellular applications," *SN Applied Sciences*, Vol. 2, Jun. 2020.
12. N. Dhar, **M. A. Rahman**, M. A. Hossain, "Design and exploration of functioning of a D-Z shaped SNG multiband metamaterial for L-, S-, and X-band RADAR applications," *SN Applied Sciences*, Vol. 2, May 2020.

2019

13. **M. A. Rahman**, E. Nishiyama, and I. Toyoda, "A wideband dual-circularly polarized 2×1 array antenna using multi-layer substrate for compact structure," *Microwave and Optical Technology Letters*, Vol. 62, no. 1, pp. 474-483, Sep. 2019.
14. **M. A. Rahman**, E. Nishiyama, Q. D. Hossain, M. A. Hossain, and I. Toyoda, "A Multi-Layer Approach of Orthogonally Fed Circularly Polarized Microstrip Array Antenna for Enhanced Gain," *Int'l J. Microwave and Wireless Technologies*, vol. 11, no. 5-6, pp. 532-542, Jun. 2019.

2018

15. **M. A. Rahman**, E. Nishiyama, and I. Toyoda, "A Polarization Reconfigurable Microstrip Antenna Employing Dual-Perturbation Technique," *Progress In Electromagnetics Research M*, Vol. 69, pp. 197-206, May 2018.
16. **M. A. Rahman**, E. Nishiyama, and I. Toyoda, "A Dual-Band Slot-Embedded Microstrip Antenna for Dual-Polarization Operation," *Progress In Electromagnetics Research M*, Vol. 63, pp. 141-149, Jan. 2018.

2016

17. **M. A. Rahman**, E. Nishiyama, M. A. Hossain, Q. D. Hossain, and I. Toyoda, "A circularly polarized array antenna with inclined patches using both-sided MIC technology," *IEICE Communication Express*, vol. 6, no. 1, pp. 40-45, Oct. 2016.

2015

18. Q. D. Hossain, M. A. Hossain, and **M. A. Rahman**, "Dual Orthogonal Feed Circular Polarization Array Antenna Using Microstrip Slot Feed Network," *International Journal of Electrical and Computer Engineering*, vol. 5, no. 5, pp. 1119-1127, Oct. 2015.
19. **M. A. Rahman**, Q. D. Hossain, M. A. Hossain, E. Nishiyama, and I. Toyoda, "Design and Parametric Analysis of a Planar Array Antenna for Circular Polarization," *International Journal of Microwave and Wireless Technologies*, vol. 8, no. 6, pp. 921-929, March 2015.

CONFERENCE PROCEEDINGS:

2024

20. D. Das, M. A. Hossain, **M. A. Rahman**, L. C. Paul, "1D Beam Switching Four Element Microstrip Patch Array Antenna with Planar 90° Hybrid Coupler," 2024 3rd Int'l Conf. on Advancement in Electrical and Electronic Engineering (ICAEEE 2024), Gazipur, Bangladesh, Apr. 2024.
21. D. Das, M. A. Hossain, **M. A. Rahman**, "Circularly Polarized Single Layer Large Scale Microstrip Patch Array Antenna for Wireless Communications," 3rd Int'l Conf. on

Advancement in Electrical and Electronic Engineering (ICAEEE 2024), Gazipur, Bangladesh, Apr. 2024.

22. T. S. Chy, D. Das, **M. A. Rahman**, M. A. Hossain, “Design of a Circularly Polarized 4-element MIMO Antenna for 5G Sub-6 Band Applications,” 3rd Int’l Conf. on Advancement in Electrical and Electronic Engineering (ICAEEE 2024), Gazipur, Bangladesh, Apr. 2024.

2023

23. M. N. Rahman, **M. A. Rahman**, M. Hasan, M. A. Hossain, E. Nishiyama, I. Toyoda, “A Branch-Line Coupler Feed MIMO Antenna for Circular Polarization Diversity,” 5th Int’l Conf. on Telecommunication and Photonics (ICTP), Dhaka, Bangladesh, Dec. 2023.
24. R. Barua, A. Dev, N. Jahan, **M. A. Rahman**, “Design of a Split Ring Resonator Integrated Triple-Band Ridge SIW Bandpass Filter on Defected Ground Structure,” 5th Int’l Conf. on Telecommunication and Photonics (ICTP), Dhaka, Bangladesh, Dec. 2023.
25. Dev, R. Barua, N. Jahan, **M. A. Rahman**, “Half-Mode SIW-Based Dual-Band Bandpass Filter Using Ridge for X- and Ku-Band Applications,” 6th Int’l Conf. on Electrical Information and Communication Technology (EICT), Khulna, Bangladesh, Dec. 2023.
26. M. A. Rahman, A. Noman, M. J. Uddin, S. Hannan, A. Musa, **M. A. Rahman**, “Square Split Enclosed Labyrinth Maze Shaped Metamaterial Absorber for Hydrocarbon Sensing Application,” Int’l Conf. on Next-Generation Computing, IoT and Machine Learning (NCIM), Gazipur, Bangladesh, Jun. 2023.
27. T. Hossain, S. Chakraborty, M. J. Uddin, A. Gafur, S. Z. Rashid, **M. A. Rahman**, M. Ibrahim, “Performance Enhancement of UWB Antenna Using FSS Layer for millimeter-wave 5G,” Int’l Conf. on Next-Generation Computing, IoT and Machine Learning (NCIM), Gazipur, Bangladesh, Jun. 2023.
28. **M. A. Rahman**, M. N. Rahman, Md. A. Hossain, “A Design of Orthogonal Switchable Feed Networks Integrated Microstrip Antenna for Six Polarization States,” Int’l Conf. on Electrical, Computer and Communication Engineering (ECCE), Chattogram, Bangladesh, Feb. 2023.

2022

29. **M. A. Rahman**, M. N. Rahman, M. A. Hossain, M. Hasan, E. Nishiyama, I. Toyoda, “Design of a Hexad-Polarization Antenna With High Isolation and Switchable Feed Network,” 12th Int’l Conf. on Electrical and Computer Engineering (ICECE), pp. 216–219, Dhaka, Bangladesh, Dec. 2022.
30. S. Deb, H. R. Turin, **M. A. Rahman**, “Design of a Microstrip Antenna Having 360° Beam Steering Capability in Azimuth Plane,” 12th Int’l Conf. on Electrical and Computer Engineering (ICECE), pp. 136–139, Dhaka, Bangladesh, Dec. 2022.

31. M. N. Rahman, **M. A. Rahman**, M. A. Hossain, “Design of a Aperture-Coupled Pentad-Polarization Reconfigurable Microstrip Antenna,” 25th International Conference on Computer and Information Technology (ICCIT), Cox’s Bazar, Bangladesh, Dec. 2022.
32. S. J. Mishu, R. A. K. Moushi, N. Dhar, **M. A. Rahman**, “Performance Analysis of a Semi-Transparent Copper Based Negative Index Metamaterial Arrays,” Int’l Conf. on Advancement in Electrical and Electronic Engineering, Gazipur, Bangladesh, Feb. 2022.
33. M. R. Mollah, **M. A. Rahman**, M. S. R. Shohan, “Design of a Multi-band Sierpinski Carpet Fractal Antenna With Modified Ground Plane,” Int’l Conf. on Advancement in Electrical and Electronic Engineering, Gazipur, Bangladesh, Feb. 2022.

2021

34. **M. A. Rahman**, M. Hasan, E. Nishiyama, and I. Toyoda, A Gunn Diode Based Self-Oscillating Active Integrated Array Antenna With a Concept for Beamwidth Controllability,” IEEE Int’l Conf. on Telecommunications and Photonics (ICTP), Dhaka, Bangladesh, Dec. 2021.
35. Y. Hasan, **M. A. Rahman**, “Design of a Wide Dual-band Monopole Microstrip Antenna With Beam Steering Capability,” Int’l Conf. on Electronics, Communications, and Information Technology (ICECIT), Khulna, Bangladesh, Sep. 2021.
36. M. N. Rahman, **M. A. Rahman**, Md. A. Hossain, “Design of a Polarization Diversity MIMO Antenna With Improved Mutual Coupling,” Int’l Conf. on Science & Contemporary Technologies (ICSCT), Dhaka, Bangladesh, Aug. 2021.
37. S. J. Mishu, R. A. K. Moushi, N. Dhar, **M. A. Rahman**, “Design of a Dual-band Terahertz Planar Double-Negative Metamaterial with Near Zero Refractive Index Property,” Int’l Conf. on Science & Contemporary Technologies (ICSCT), Dhaka, Bangladesh, Aug. 2021.
38. H. Murshed, M. A. Hossain, **M. A. Rahman**, Eisuke Nishiyama, Ichihiko Toyoda, “Designing of a Both-Sided MIC Starfish Microstrip Array Antenna for K-Band Application,” IEEE Region 10 Symposium (TENSYP), Jeju, Korea, Aug. 2021.

2020

39. N. Dhar, **M. A. Rahman**, Md. Azad Hossain, “Frequency Tunability Study of an SRR and SNG Metamaterial Integrated UWB Antenna,” 11th Int’l Conf. on Electrical and Computer Engineering (ICECE), pp. 357–360, Dhaka, Bangladesh, Dec. 2020.
40. M. S. U. Chowdhury, **M. A. Rahman**, M. A. Hossain, and A. T. Mobashsher, “A Transparent Conductive Material Based Circularly Polarized Nano-antenna for THz Applications,” Proc. 2020 IEEE Region 10 Symposium (TENSYP), pp. 754-757, Dhaka, Bangladesh, 5-7 June. 2020.

2019

41. S. Chakraborty, **M. A. Rahman**, M. A. Hossain, E. Nishiyama, and I. Toyoda, "Design of a 5G Compatible Two-Element Dual-Band Circularly Polarized MIMO Antenna," Proc. 2019 Asia-Pacific Microwave Conference (APMC), pp. ---, Singapore, 10-13 Dec. 2019.
42. N. Dhar, P. Dutta, **M. A. Rahman**, M. A. Hossain, and A. T. Mobashsher, "A Design of a Metamaterial Integrated Triple Band Antenna for Wireless Applications," Proc. 2019 TENCON, 0795, Kerala, India, 17-20 Oct. 2019.
43. N. Dhar, **M. A. Rahman**, M. A. Hossain, and A. T. Mobashsher, "Bandwidth-Enhanced Metamaterial Integrated Antenna for Wireless Applications," Proc. 5th Int'l Conf. on Advances in Electrical Engineering (ICAEE), 4407, Dhaka, Bangladesh, 26-28 Sep. 2019.
44. S. Chakraborty, **M. A. Rahman**, M. A. Hossain, A. T. Mobashsher, E. Nishiyama, I. Toyoda, "Design and Performance Studies of a MIMO Antenna with Circular Polarization Diversity for 5G Applications," Proc. 5th Int'l Conf. on Advances in Electrical Engineering (ICAEE), 4437, pp. ---, Dhaka, Bangladesh, Sep. 2019.
45. M. S. U. Chowdhury, **M. A. Rahman**, M. A. Hossain, and A. T. Mobashsher, "Design of an ITO Based CNT Coated Transparent Nano Patch Antenna Assisted by Characteristic Mode Analysis," Proc. 5th Int'l Conf. on Advances in Electrical Engineering (ICAEE), 4472, pp. ---, Dhaka, Bangladesh, Sep. 2019.
46. S. Chakraborty, M. A. Hossain, and **M. A. Rahman**, "Design and Performance Studies of an Elliptical Slot Circular Polarization Antenna for C-Band Wireless Applications," Proc. 2019 Int'l Conf. on Electrical, Computer and Commun. Engineering (ECCE), 7770, pp. -- -, Cox's bazar, Bangladesh, Feb. 2019.

2018

47. **M. A. Rahman**, E. Nishiyama, and I. Toyoda, "Quadrature Hybrid Integrated Dual-Circularly Polarized Array Antenna," Proc. 2018 IEEE Asia-Pacific Conf. Antennas and Propag. (APCAP), M4B-4, pp. 164-165, Auckland, New Zealand, Aug. 2018.
48. **M. A. Rahman**, E. Nishiyama, and I. Toyoda, "Rectenna Application of a Quadrature Hybrid Integrated Microstrip Antenna for Multi-Polarization Reception," IEICE Technical meeting on Wireless Power Transfer, WPT2018-11, June 2018.
49. **M. A. Rahman**, E. Nishiyama, and I. Toyoda, "Design of a Wideband Dual-Polarization Microstrip Array Antenna," IEICE 2018 General Conf., B-1-71, Mar. 2018.

2017

50. **M. A. Rahman**, E. Nishiyama, and I. Toyoda, "A Circular Polarization Antenna With Square Ring Slot Loaded on Ground Plane," Proc. 2017 Int'l Symp. Antennas and Propag., POS3-1223, pp. ---, Phuket, Thailand, Oct.-Nov. 2017.
51. **M. A. Rahman**, E. Nishiyama, and I. Toyoda, "Design of a Polarization Reconfigurable Defected Ground Microstrip Antenna With L-shape Corner Segment," Proc. 2017 IEICE Society Conf., B-1-176, Sep. 2017.

52. **M. A. Rahman**, E. Nishiyama, and I. Toyoda, "A frequency diversity reconfigurable antenna with circular polarization switching capability," 2017 IEEE AP-S Symp. Antennas and Propag. And URSI CNC/USNC Joint Mtg. (AP-S/URSI 2017), TH-A1.2A.4, pp. 1367-1368, San Diego, CA, USA, July 2017.
53. **M. A. Rahman**, E. Nishiyama, and I. Toyoda, "Design of a Slot-Loaded Dual-Band Dual-Polarization Microstrip Antenna," IEICE 2017 General Conf., B-1-133, Mar. 2017.

2016

54. **M. A. Rahman**, E. Nishiyama, M. A. Hossain, Q. D. Hossain, and I. Toyoda, "A Microstrip Antenna With Circular Polarization Switching Capability for X-Band Applications," Proc. 2016 Int'l Symp. Antennas and Propag., POS2-55, pp. 820-821, Okinawa, Japan, Oct. 2016.
55. **M. A. Rahman**, E. Nishiyama, and I. Toyoda, "Design of a Circularly Polarized Microstrip Antenna With Frequency and Polarization Diversity Using Single Corner Perturbation," Proc. 2016 IEICE Society Conf., B-1-85, Sep. 2016.
56. **M. A. Rahman**, E. Nishiyama, Q. D. Hossain, M. A. Hossain, and I. Toyoda, "Design of an Orthogonal Feed Circularly Polarized Microstrip Array Antenna Suitable for Large Scale Extensible Arrays," 5th Int'l Conf. on Informatics, Electronics & Vision (ICIEV2016), May 2016.
57. **M. A. Rahman**, E. Nishiyama, Q. D. Hossain, M. A. Hossain, and I. Toyoda, "Experimental Investigation of a Circularly Polarized Array Antenna With Inclined Linear Polarization Patches," Proc. 2016 IEICE General Conf., B-1-186, Mar. 2016.

2015

58. S. M. Miraz, M. M. Faruk, and **M. A. Rahman**, "Numerical analysis of deep level defects in Cu₂ZnSnS₄ (CZTS) thin film solar cells," 3rd Int'l Conf. on Green Energy and Technology (ICGET2015), Sep. 2015.

2014

59. **M. A. Rahman**, Q. D. Hossain, M. A. Hossain, E. Nishiyama, I. Toyoda, "Design of an X-Band Microstrip Array Antenna for Circular Polarization," 8th Int'l Conf. on Electrical and Computer Engineering (ICECE 2014), Dec. 2014.
60. **M. A. Rahman**, Q. D. Hossain, M. A. Hossain, E. Nishiyama, I. Toyoda, "Design of a Dual Circular Polarization Microstrip Patch Array Antenna," 9th Int'l Forum on Strategic Technology (IFOST) 2014, Oct. 2014.
61. **M. A. Rahman**, Q. D. Hossain, M. A. Hossain, and P. Chowdhury, "Design of a Circular Polarization Array Antenna with Dual-Orthogonal Feed Circuit," in Conference Proceedings, 3rd Int'l Conf. on Informatics, Electronics & Vision (ICIEV2014), May 2014.
62. **M. A. Rahman**, Q. D. Hossain, and M. A. Hossain, "Design of a Circular Polarization Array Antenna Using Linear Polarization Patches," in Conference Proceedings, 1st Int'l

Conf. on Electrical Engineering and Information & Communication Technology (iCEEICT2014), Apr. 2014.

2013

63. M. A. Hossain, P. Chowdhury, Q. D. Hossain, **M. A. Rahman**, R. S. Goopta, “Linear Polarization Switchable Patch Array Antenna using Magic-T Bias Circuit and Orthogonal Feed,” in Conference Proceedings, National Conf. on Intelligent Computing & Information Technology (NCICIT 2013), Nov. 2013.

TRAINING _____

- Training course on “*Operation and Maintenance of Electrical Sub-station*,” Organizer: The Institution of Engineers Bangladesh (IEB), Ramna, Dhaka, Period: January 22, 2012, to February 02, 2012.
- Training course on “*Industrial Technology on Electrical and Instrumentation*,” Organizer: Training Institute for Chemical Industries, Narsingdi (Central training institute of BCIC), Period: March 16, 2008, to April 7, 2008.

COMPUTER PROFICIENCY _____

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|-----------------------------|---|
| Programming Language | C++, MATLAB |
| Engineering Software | ADS, CST, AUTOCAD |
| Application | Microsoft Office Package, Origin, IgorPro |

REFERENCES _____

References are available upon request.