

PROFILE

Name	Chetan Naik J
Position & Affiliation	Assistant Professor, Department of ECE
Areas of Interest	Embedded Systems, Underwater communication, Robotics, IOT
Email	chetan.ece@cambridge.edu.in
LinkedIn ID	https://www.linkedin.com/in/chetan-naik-j-079ba838/
Google Scholar ID	https://scholar.google.com/citations?user=BnB4eOAAAAAJ&hl=en&authuser=1
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Vidwan ID	260862
Scopus ID	59218061600
Professional Webpage (if any)	

Educational Qualifications:

Ph.D	Reva University	India	Pursuing
MTech	Nitte Meenakshi Institute of Technology, VTU	India	2014
BE	PES Institute of Technology, VTU	India	2012

Areas of Research:

Underwater communication, Embedded systems, IOT&WSN, Error coding techniques

Brief Profile:

Mr. Chetan Naik J is an Assistant Professor in the Department of ECE. His academic interests include Embedded Systems, IOT, Underwater communication, Microcontrollers and Robotics. In addition to his interest in academics, he also focuses on research in the area of Underwater communication and Error coding. He also has worked on Arduino programming, Embedded C programming, Python, 3D printing technology, PSOC and Matlab. He has good experience working in Research and Development (R&D), Centre for Robotic Research, NMIT Bangalore and as a Senior Research Staff at Research and Development (R&D), MSEC, Bangalore. He has worked on various VGST, IEDC-DST, VTU TEQIP, VTU-COE projects and Private projects consultation work.

He holds a B.E. degree in ECE from Visvesvaraya Technological University and an M.Tech degree in ECE from the Visvesvaraya Technological University, and currently pursuing Ph.D under Reva University. He has participated in

various workshops and faculty development programs held by various colleges. He has conducted workshop on Introduction to Embedded system and PSOC 5 LP, Introduction to Embedded system and ARM 7 Cortex M0, Arduino Board, Matlab Signal Processing toolbox. He has got online certification on Fundamentals of Network Communication from University of Colorado system, How to write a resume from The State University of New York and The 3D Printing Revolution from University of Illinois.

He has around 12 years of teaching experience and is associated with Cambridge Institute of Technology from 2019. Guided more than 8 B.E. and 2 M.Tech students in their seminars and project dissertations. Reviewer at IET Circuits, Devices and Systems and IET Radar, Sonar & Navigation Journal. He is a Senior Member of Institute of Research Engineers and Doctors (IRED) and Member of International Association of Engineers (IAENG). I Have setup PCB Design skill lab by AICTE Idea Lab.

Awards/Achievements/Others:

- Best Young Researcher of the year award 2024 by Asia Research Award**
- Best Paper Award at IACIT 2022 Conference Reva University Bangalore**
- Tech Guru title after attending 1 Week training by AICTE IDEA LAB on Electronic system design at K.S. Rangasamy college of technology, Tamil Nadu**
- Reviewer at IET Circuits, Devices and Systems and IET Radar, Sonar & Navigation Journals**
- Senior Member of Institute of Research Engineers and Doctors (IRED)**
- Member of International Association of Engineers (IAENG)**
- Selected for Teaching Assistantship by TEQIP (Technical Education Quality Improvement Program) funded by world bank at NMIT Bangalore**
- GATE 2013 qualified with 76.93 percentile**
- Participated in State-wide engineering IT Quiz organised by BITES and TCS**

Courses Taught:8051 Microcontroller, Embedded system, IOT & Wireless Sensor Network, Digital Communication, Neural Networks, Wireless Communication, Optical and Wireless Communication,

Publications/Patents:

Publications	<ol style="list-style-type: none"> 1. Chetan Naik J, Santhosh Kumar N, Vishnu G C, Chandana K N, Vinodh R, "AN EVOLUTION OF UNDERWATER VEHICLE FOR UNDERWATER COMMUNICATION", International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.12, Issue 5, pp.992-999, May 2024, 2. J. Chetan Naik, S. L. Pinjare, P. M. Pooja; Design and simulation of underwater acoustic sensor materials. AIP Conf. Proc. 8 July 2024; 2965 (1): 020003. https://doi.org/10.1063/5.0212194 3. J. Chetan Naik, B. S. Deeksha, H. Girish, Gurusharan Kashetty, T. G. Shivapanchakshari, Manohar Sai Polakam; IoT based home automation using Blynk cloud. AIP Conf. Proc. 8 July 2024; 2965 (1): 020006. https://doi.org/10.1063/5.0215427. 4. T. Bhargava, H. Kishor Kumar, Pramod Mahalingappa Godi, H. Girish, J.
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- Chetan Naik**; IoT based fire alarm system using Blynk app. AIP Conf. Proc. 8 July 2024; 2965 (1): 020007. <https://doi.org/10.1063/5.0212325>.
5. Girish H, Jharna Majumdar, **Chetan Naik J**, Sneha Rachna, Jenita Subhash, D. Antony Louis Piriya Kumar, "Performance Analysis of adaptive enhancement algorithms using Quality Metric Parameters for autonomous navigation of an unmanned mobile platform in a low illumination environment", Article 56, River Publisher, 2022.
 6. Ajay S.N, **Chetan Naik J**, Tejaswini C, Sunitha P. H, "Literature Survey on Spectrum Occupancy Measurement", International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Volume-4, Issue-01, Jan 2022.
 7. **Naik J, Chetan** & Pinjare, S L & P, Cyril. (2019). DESIGN OF AN OFDM MODEL USING RAYLEIGH AND RICEAN CHANNEL. International Journal of Civil Engineering and Technology. 10. 3345-55. 10.17605/OSF.IO/RQYKH.
 8. **Naik J, Chetan** & Pinjare, S L & P, Cyril. (2018). UNDERWATER OFDM MODEL USING DWT AND FFT METHODS. International Journal of Civil Engineering and Technology. 9. 1075-1086. 10.17605/OSF.IO/8U32T.
 9. Tejas G Naik, **Chetan Naik J**, Abhilasha A, "Slingshot based space rocket launcher", International Journal of Mars Research, ISSN: 2453-8760, Volume-4, Issue-2, 16th March 2017.
 10. Pooja R, **Chetan Naik J**, Arun Kumar G C, "IOT BASED SMART CAMPUS", International Journal of Engineering Research in Electronics and Communication Engineering(IJERECE), ISSN: 2394-6849, Volume-3, Issue-10, Page No.47-52, Oct 2016.
 11. Punitha M, **Chetan Naik J**, Arun Kumar G C, "SMART DIGITAL INVERTER", International Journal of Engineering Research in Electronics and Communication Engineering(IJERECE), ISSN: 2394-6849, Volume-3, Issue-10, Page No.53-59, Oct 2016.
 12. **Chetan Naik J**, Asha Rani, "Wireless Data Transmitter and Receiver using PSOC", M S Journal of Engineering Technology and Research, ISSN: 2395-6933, Volume-3, Page No.52-54, 2015.
 13. Asharani N, **Chetan Naik J**, Darshan Kumar C D, "Foot Step Power Generation for Automatic Door Controller", M S Journal of Engineering Technology and Research, ISSN: 2395-6933, Volume-3, Page No.46-51, 2015.
 14. Divya K R, **Chetan Naik J**, "Literature Study on Underwater Acoustic Data Modem", M S Journal of Engineering Technology and Research, ISSN: 2395-6933, Volume-3, Page No.11-12, 2015.
 15. Divya K R, **Chetan Naik J**, Azarathamma S, "Design of AWGN Channel Using Matlab", M S Journal of Engineering Technology and Research, ISSN: 2395-6933, Volume-3, Page No.8-10, 2015.
 16. Divya K R, **Chetan Naik J**, Azarathamma S, "Design of an Underwater Channel using Simulink", M S Journal of Engineering Technology and Research, ISSN: 2395-6933, Volume-3, Page No.5-7, 2015.
 17. **Chetan Naik J**, Asha Rani, "A Study on Monkey Face 3D Printing", M S Journal of Engineering Technology and Research, ISSN: 2395-6933, Volume-3, Page No.1-4, 2015.
 18. Divya K R, **Chetan Naik J**, Shruthi G, Asha Rani, "Wireless data transmission using PSOC", 8th National women science congress conference, Nov 2015
 19. **Chetan Naik J**, Dr. S. L. Pinjare, Dr. Jharna Majumdar, "Linear-Quadratic

	<p>Regulator Control for Human Following Robot in Straight Path”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278–3075, Volume-4 Issue-2, Page No.65-67, July 2014</p> <p>20. Chetan Naik J, Sandeep Kumar Malu, Dr. Jharna Majumdar, “Image based Visual servoing with Linear Quadratic Regulator Control for Mobile Robot”, International Journal of Applied Engineering Research, ISSN: 0973-4562, Volume-9, No.11, Page No. 1357-1358, 2014</p> <p>21. Chetan Naik J, Dr. S. L. Pinjare, Dr. Jharna Majumdar, “Implementation of Image based Visual servoing on Embedded Platform”, National Conference on Electrical & Electronics Engineering, IEEE-HKKBKCE student Chapter, Page No. 106, June 2014</p>
<p>Patents</p>	<ol style="list-style-type: none"> 1. “CARBON DIOXIDE AS A FUEL FOR VEHICLES”, Patent ID-202241075398, Date of publication-6/12/2022. 2. “Text Language Translation through Spectacles using AR Technology”, Patent ID-202241075399, Date of publication- 26/12/2022 3. “CARBON DIOXIDE AS A FUEL FOR VEHICLES”, Patent ID-202241075395, Date of publication- 26/12/2022 4. “PRESSURE COOKER WHISTLE DETECTOR”, Patent ID-202241075396, Date of publication- 26/12/2022 5. “ACCIDENT DETECTION AND ALERT SYSTEM”, Patent ID-202241075400, Date of publication- 26/12/2022 6. “FACTORY INVENTORY AUTOMATION USING INDUSTRY 4.0 TECHNOLOGIES”, Patent ID-202241075401, Date of publication- 26/12/2022 7. “Articulated Robotic Arm”, Patent ID-202241075402, Date of publication- 26/12/2022 8. “HAND GESTURE RECOGNITION-CONTROLLED GAMING”, Patent ID-202241075403, Date of publication- 26/12/2022 9. “IOT BASED SMART POWER MANAGEMENT SYSTEM USING WSN”, Patent ID-202241076031, Date of publication- 27/12/2022 10. “Women’s safety and Empowerment App using SOS signal and BOT messages Namma Mahileyara Rakshane”, Patent ID-202241076045, Date of publication- 28/12/2022 11. “OFFLINE ADVERTISING APPLICATION”, Patent ID-202241077275, Date of publication- 4/1/2023 12. “Online shopping Application for Local shopkeepers (Quicky)”, Patent ID-202241077274, Date of publication- 30/12/2022 13. “Reduce deterioration of sucrose level in Sugarcane using E coil bacteria”, Patent ID- 202241077272, Date of publication- 30/12/2022.
<p>Book/Book Chapters</p>	<ol style="list-style-type: none"> 1. PCB Design Lab Presentation, ISBN: 978-93-5980-426-2, Self Publication,2023 2. Microcontroller and embedded system module 1, ISBN: 978-93-5915-722-1, Self Publication, 2023. 3. Embedded C Basics- A book to start your embedded career, ISBN:978-93-5913-713-1, Self Publication, 2023.

Research and Consultancy:

I have been involved in consultancy work at Weinkling Pvt. Ltd. For 1 Month.