

Raghul R

Assistant Professor,
 Department of Electronics and Instrumentation Engineering,
 National Engineering College,
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 Email : raghuleie@nec.edu.in
 Date of Joining : 30.05.2016

Academic Summary

Degree	Specialization	CGPA	Class	Year	Institute/University
M.Tech	Control and Instrumentation Eng.	8.52	FWD*	2016	Thiagarajar College of Engineering.
B.E	Electronics and Instrumentation Eng.	8.67	FWD*	2012	Sethu Institute of Technology.

*First Class with Distinction

Work Experience

Name of the Organization/Industry	Designation	Period	Duration
National Engineering College	Assistant Professor	30.05.2016 - Till Now	-
Thiagarajar College of Engineering	Teaching Intern	07.06.2015 - 22.10.2015	5 Months
Shree Abirami Engineering Works	Testing Engineer	04.06.2012 - 30.06.2014	2 Years

Research Publications

- **Raghul R;** Ajith B.Singh; Syed Mohaideen Shahidh S; Model Identification Fuzzy Controller Implementation for Evaporator in Sugar Industry, ICEECS - International Conference on Electrical Computer Science Engineering, May 2012.
- **Book titled Model identification Fuzzy Controller Implementation for Evaporator in Sugar Industry,** ISBN: 978-3-659-25163-4 Published by LAP-Lambert Academic Publishing.

Funded Projects

- Received Fund of 2.5 Lakh from **NewGen IEDC, Under the Financial Support of NSTEDB, DST, Govt. of India, New Delhi.** An Entrepreneurial Project Guiding Students to develop a Product cum Prototype (**Coconut Qualifier to check the quality coconuts by means of Non-Destructive Evaluation**) [30 Sep '17 – 30 Mar '18]

Student Members : G.S Rahul, M.Veerashanthi Ram [Final Year / Electronics & Instrumentation Eng.]

Technical Proficiency

Operating Systems	: Linux, Windows.
Programming Language	: C/C++ , Python , LabVIEW, MATLAB, Multisim, AutoCAD, L ^A T _E X.
Hardware Platform	: Arduino, Raspberry Pi, Microchip PIC18F/PIC24F, Atmel AT89Cxx.
Web Development	: CSS, HTML, PHP, HTML, MySQL, Networking.

Area of Interest

- Nonlinear Control
- State Estimation
- Signal Processing

Work Experience and Positions of Responsibility

National Engineering College, Kovilpatti.

[30 May '16 –Till date]

Subjects Handled

Theory Course : Signals & Networks, Electric Circuit Analysis, Nonlinear Control, Electronic Devices.

Practical Course : Electric Circuit Analysis, Sensor and Transducers, Control System, Digital Control Lab.

Thiagarajar College of Engineering, Madurai.

[Jun '15 – Oct '15]

Subjects Handled

Theory Course : Measuring Instruments.

Practical Course : Advanced Instrumentation Laboratory, Digital Circuits Lab.

Shree Abirami Engineering Works, Chennai.

[Jun '12 – Jun '14]

Nature of Work : Product Inspection and Testing.

Key Academic Projects

Intelligent Input Estimation with Interactive Multiple Model Filter for Target Tracking

(Guide : Prof. M. Varatharajan, Thaigarajar College of Engineering)

[Jan - Apr '16]

- Identify and locate the multiple motion of a target and identify its position and velocity
- Estimate the Target States by Intelligent Input Estimation approach (Detection & Decision Based)
- Estimate the unknown Acceleration input

Tracking of Maneuvering Target Using Augmented Input Estimator and IMM Estimator

(Guide : Prof. M. Varatharajan, Thaigarajar College of Engineering)

[Sep - Dec '15]

- Identify and Locate the Maneuvering Target Position, Velocity corrupted by Noise
- Estimate the Target States by Input Estimation and Augmented State Estimate (Detection Based)
- Estimated the unknown input

Model Identification & Fuzzy Controller Implementation for Evaporator in Sugar Industry

(Guide : Prof. Ajith B. Singh, Sethu Institute of Technology)

[Jan - Apr '12]

- Identification of Transfer Function for the Evaporator Tank
- Implement & Tuning of PID Controller
- Implement Fuzzy Controller
- Compared the performance analysis of PID & Fuzzy Controllers

Faculty Development Programme/Workshops

- Short Term course on Optimal Control and State Estimation QIP -IISc, Bangalore. [2nd – 6th Jul'18]
- Short Term course on Nonlinear and Adaptive Control QIP -IISc, Bangalore. [12th – 16th Jun'17]
- FDP on Instructional Design and Delivery System – NITTTR, Chennai. [22nd – 27th May'17]
- FDP on Technology Enable Learning – NITTTR, Chennai. [27th – 29th May'17]
- FDP on Entrepreneurship Development - DST- NSTEDB, New Delhi. [05th – 17th Dec'16]

Seminars

- Research perspectives and challenges in instrumentation aspects of IoT. [25th – 27th Oct'17]

Professional Society Membership

- Associate Member in Institute of Engineers IE(I) – AM159323-7.

Scholastic Achievements

- Ranked 4th position in Anna University Graduate Examination

Online Courses

- Elite Certification with 88% in Introduction to Research, NPTEL Online Course.

College/ Department Responsibility

College Level: – NewGen IEDC Assist, IE(I) Staff Chapter Incharge.

Department Level: – Class Incharge (IV Year), Discipline Committee Member, Dept. News Letter Incharge.