

Vignesh Ramakrishnan

 [IntrovertInDisguise](#) |  [introvert-in-disguise](#) |  rvignesh2809@gmail.com |  +91 9004048778

INTERESTS

Learning based control, Control of discrete dynamical systems

EDUCATION

2021 - present	PhD (Mechanical-Control and Robotics) at IIT Gandhinagar (GPA: 8.76/10) Advisor: Prof. Harish Palanthandalam-Madapusi
2014 - 2018	B.E.(Instrumentation) at V.E.S. Institute of Technology, Mumbai (GPA:8.36/10) Advisor: Prof. J M Nair
2012 - 2014	ISC Smt Sulochanadevi Singhania School (91.8%)
2001 - 2012	ICSE Smt Sulochanadevi Singhania School (94.7%)

WORK EXPERIENCE

Junior Research Fellow, IIT Bombay

July 2020 - April 2021

[Department of System and Control engineering](#)

PI: [Prof Vivek Natarajan](#)

- Worked on MATLAB simulations involving semi-discrete(discrete space, continuous time) heat PDE-based observer formulation in state space

GET→Engineering Associate-CPO, Johnson Controls

Jan 2019 - Jun 2020

- Energy Modeler in the [Central Plant Optimisation](#)(CPO) team at Johnson Controls Pune working on Model Predictive Control based algorithm logic in MATLAB.
- Specific task profile:Pre-sales simulation and curve fitting of central plant equipment like chillers, cooling towers,pumps in MATLAB, energy savings analysis using the CPO Planning Tool(comparable to E-Quest),Data handling and presentation

GET- Advanced Product Research/Special Projects, Johnson Controls

Oct 2018 - Jan 2019

- Part of a team which designed products in IoT domain from conception to completion.
- Provided energy retention calculations and hardware/testing support for a JCI patented self powered(energy harvesting) current sensor named "Snap-On". Also helped with board bringup and reliability tests.
- Conducted a preliminary feasibility study and competitor product analysis for a wireless touch/press powered switch.

MISCELLANEOUS

CERTIFICATIONS

- ACM Summer School for Shape Modeling(July 2021)
- Science Leadership Workshop (June 2020)

TEST SCORES

- IELTS Academic(Feb 2021): 8.0/9
- GATE 2019(Instrumentation): 526/1000 (AIR 590)

MUSIC

- Learnt Carnatic music on mandolin from [Shri.Suresh Kumar](#) for 15+ years.