Rohit Chintala

1020 Autumn Circle #C   (609)-420-7929
College Station, TX, 77840   rohit.chintala@gmail.com

OBJECTIVE

Seeking an internship opportunity with IBM-Research India in the area of modeling and control design, applied to commercial building energy management.

EDUCATION

Texas A&M University, College Station, Texas   Expected Graduation Dec-2015
Ph.D in Mechanical Engineering
Overall GPR: 3.5

Texas A&M University, College Station, Texas   Graduation Aug-2011
Master of Sciences in Mechanical Engineering
Overall GPR: 3.75

Birla Institute of Technology, Mesra, India   Graduation July-2008
Bachelor of Engineering in Mechanical Engineering
Overall GPR: 7.11/10

EXPERIENCE

Industrial Assessment Center, College Station, TX   Jan 2015 – present

Texas A&M University, College Station, TX   October 2012 – Dec 2014
Research Assistant (supported by NIST)

- System identification of the air conditioning systems (air-handling unit, variable air volume boxes and room temperature models) of the Utilities Office at Texas A&M for the implementation of Model Predictive Control algorithms to optimize energy consumption
- Creating and validation of linear parametric models (ARX, ARMAX, Box-Jenkins and Output error) in real time in MATLAB from data obtained through the Building energy management system
- Identifying the upstream and downstream systems for each air-conditioning subsystem by perturbing the reference points.
- Study of hunting in valves, dampers and fans across various buildings at Texas A&M, for the application of alternative control architectures such as cascaded control loops.

IBM Research, Bangalore, India   May2014 – Aug 2014
Internship

- Develop key performance indexes for energy profiling of the HVAC systems in commercial buildings

Texas A&M University, College Station, TX   Oct 2012 – Oct 24013
Research Assistant (supported by Marvin Land Systems)

- Building SIMULINK models of the components of the air-conditioning system of a ground combat vehicle
- Verifying the models and the control systems implemented in the vehicle

Texas A&M University, College Station, TX   Aug 2011 – Oct 2012
Graduate Assistant (ETID TAMU)
- Devising new experiments using ladder programming and upgrading the PLC equipment in the Fluid Power Lab
- Link the simulation platform of Automation Studio to the pneumatic equipment Controlled by PLC
- Use fewer or additional bullets as needed to best describe your experience

ACADEMIC HONORS
- Awarded Non-Residential Scholarship for Academic Excellence -Fall 2008
- Awarded Graduate Program Enhancement Scholarship-Spring 2009.
- Awarded Non-Residential Scholarship for Academic Excellence -Fall 2010
- Received Graduate Scholarship for outstanding new graduate students- 2011-2012
- Awarded Graduate Student Scholarship for Academic Excellence – Fall 2012.

SKILLS
- Advanced knowledge and experience in programming in MATLAB and SIMULINK
- Experience in controlling real-time systems using LABVIEW, DSPACE and PLC Programming
- Also familiar with programming languages C, C++ and Java