

Sanket Mhadgut

Electronics & Telecommunications engineer | Control systems, MATLAB/Simulink, model-based design

Profile

Experienced electronics and telecommunications engineer with strong domain expertise in model-based design, control systems, and MATLAB/Simulink-driven automation, delivering verification and validation solutions for HVAC, aerospace, and industrial applications.

Experience

Tata Consultancy Services (2015 - Present)

- Developed control algorithms for chillers, HVAC systems, and vehicle-floor detection using MATLAB/Simulink.
- Delivered DO-178B-aligned coverage analysis for aerospace flight code and model verification.
- Implemented digital twin and sensor-data analytics workflows.

Education

Rajiv Gandhi Institute of Technology (B.Tech, Electronics & Telecommunications, 2015)

Selected Projects

Controls development for Light Commercial Chiller System; Flight Code G7K model coverage and DO-178B compliance; Accelerometer digital twin with MATLAB/Simulink; Residential HVAC plant modeling with Simscape.

Awards & Recognitions

Exemplary Performance, L&T; Technology Services 2018; Spot Award 2017; Star of the Month 2016; Contraptions Winner, Innovision Tech Fest 2014.

Skills

MATLAB, Simulink, Simscape, Dymola, Model-Based Design, Control Systems, DO-178B, Verification & Validation, Aerospace integration, HVAC automation.

Languages

English, Hindi, Marathi, French