



Mohit Dhawan

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Summary

Extensive background and experience of 10+ years in rugged embedded electronic design and management. Result-driven individual acting strategically with an eye for detail in a cross-functional environment. Consistently delivering sustainable solutions in alignment with business objectives of improving productivity, quality, and cost.



Hardware Design



Project/People Management



Cross-Function Co-Design

Education

MASTER OF SCIENCE (MS) | AUG 2011 | UNIVERSITY OF NORTH DAKOTA (UND), USA

- Major: Electrical Engineering, GPA: 4.00/4.00

BACHELOR OF ENGINEERING (BE) | MAY 2009 | MAHARSHI DAYANAND UNIVERSITY, INDIA

- Major: Electronics and Communication Engineering, Degree: Honors

Skills & Abilities

HARDWARE DESIGN

- Circuit Design & Simulation, Schematic Design & PCB Review
- Worst Case Analysis, FMEA, EMI/EMC & Transient Analysis
- Product Lifecycle Management, Bill of Material, Testing & Troubleshooting, Root Cause Analysis
- Product Design and Prototyping, System Engineering, PV&V
- Design For Excellence (DFM/DFT/DFC)

PROJECT MANAGEMENT

- People and Project Planning, Work Breakdown Structure using Rally
- Risk Management, Change Request Management, Vendor Management
- Stakeholder and Global Team Collaboration
- Budget Planning and Tracking

CROSS-FUNCTIONAL DESIGN

- Supervising Base Software Development utilizing MCAL and Low-Level Device Drivers
- Cross-functional design reviews (Mechanical, Manufacturing, Software, Test, System)
- Working with EMS/ECM/OEM
- Automation and Scripting, Hardware Software Interface

Experience

JOHN DEERE | JAN 2011 - PRESENT

Technical Manager | Pune | Feb 2021 - Present

- Managing Agile Teams of 15+ engineers for development of embedded middleware
- Added Hardware Design lead responsibility, Enabling Hardware Software Co-design

Senior Lead Engineer | Pune | Jun 2017– Feb 2021

- Lead multiple Hardware Design projects for Body Controllers (BCM), Telematics (BLE), Instrument Clusters and Engine Controllers (ECU) operating on 8-/16-/32-bit Microcontrollers
- Develop Business Case, proposals and plans, budget estimations, lead turn-key product development
- Peer Review Design

Lead Engineer | Pune| May 2014–May 2017

- Requirement gathering, schematic design and analysis, PCB Layout review, design verification, testing and troubleshooting, Design for Manufacturing (DFM)/Design for Testability (DFT)
- Bill of Material (BOM), Engineering Change Order (ECO), working with suppliers and stakeholders

Senior Engineer | Pune | Sept 2012– May 2014

- Design Engineer for various electronic design projects
- Designed circuits like DC/DC converters, Low power electronics, Microcontrollers, LCD, LED Drivers, System Basis Chips (SBC), CAN, etc. for Automotive environment (transients and EMI/EMC)

Post Graduate Engineering Trainee| Pune | Sep 2011– Sep 2012

Engineering Intern | Fargo | Jan 2011– Aug 2011

Tools & Certification

TOOLS

- Hardware Design - Mentor Graphics DxDesigner, LTSpice, OrCAD PSpice, PTC Mathcad
- Software Design - MS Visual Studio, PyCharm, Code Collaborator, Version Control – Github/Fork, Language fundamentals of Python 3, VBA, VB.net and C
- Project Management - CA Agile Central (Rally), AgilePLM, MS Teams, PowerBI, MS-Office

CERTIFICATIONS

- Google Project Management Certification - Sept 2021
- Certified Scrum Product Owner (CSPO) – July 2021
- Automotive Functional Safety Certification Program (FSCP) Level 1, ISO26262, TUV SUD – Aug 2020
- System Engineering Certification Program, Caltech – Nov 2017
- Python for Everybody Specialization (5 courses), University of Michigan-Coursera – May 2021

[Click here to view all my certifications on Github](#)

Recognition

- 1 US patent filed in 2019
- 2016 Enterprise Collaboration Award & Senior Vice President Award, John Deere, Moline, USA
- 2016 Apex Award for Outstanding Team for Business Execution, John Deere, India
- 2013 Torchbearer of Values, John Deere, India
- 2020 Nominated for Enterprise Innovation Award and Apex India Innovation Award, John Deere
- 2019-21 Convenor for Electrical & Electronics Theme at John Deere TechConnect Conference, India