
I am a control and systems engineer by training and am currently a **project manager** of a **software development team** in an MNC. I have over 10 years of experience in various sectors (including automobile and aerospace) in various blue chip MNCs in domain of control and systems engineering. I hold a **PhD** in control engineering from a top UK university and am open for new challenging opportunities in **senior technical leadership/management roles** that offer market leading rewards.

♦ **WORK EXPERIENCE**

Confidential, UK (May 2016- Present):

- o Currently working as **R&D project manager** of a global **software development** team that develops Simulink reference solutions for HVDC projects; currently working for projects in North America & Asia.
- o Technical & Project management of research, design and development of Simulink blocks for pole, bipole and protection functions for LCC technology based HVDC systems.
- o Currently managing a team of 17 engineers (including local & remote teams).
- o Use of spiral & V model development cycles for software development.
- o Software development & management in **Agile Environment**.
- o Management of software version control through **Apache Subversion**.
- o Implement Team Based Work System (TBWS) philosophy.
- o Use of **Six Sigma** principles and tools such as progress measurement metrics, Gantt Charts & RACI, Design of Experiments, daily stand-ups, weekly 4-box reporting etc.
- o Resource, delivery and cost planning.
- o Experienced in Microsoft packages, Matlab, SAP etc. based tools.
- o Driving process change for software development cycle to be compatible to CMMI Level 4.
- o Liaison regularly with other functional teams and have established seamless inter-team communications.
- o Regular team based Coaching- technical such as control systems theory.
- o Provide independent decision-making and leadership.

Confidential, UK (February 2016- April 2016):

- o Was a **Lead Engineer-Controls** in the software platform group for HVDC systems.
- o Work involved design, development and maintenance of software (control and systems solutions) that then get compiled and deployed on various sub-platforms of a HVDC system.
- o Worked on development and maintenance of System Architect software in Delphi.
- o Development work in Agile environment.
- o Worked in an interdisciplinary team.

Cummins Inc., UK (April 2012- October 2015):

- o Was employed as **Controls Engineer** in the domain of automotive diesel engines for Euro VI products.
- o Work profile involves development of engine system calibrations, control systems logic, controller tuning, test procedures, performance analysis and troubleshooting with a customer focus.
- o Model based development and use HIL, SIL tools for development and validation work of control algorithms, interfaces, SAE J1939 datalinks etc.
- o Work on various control systems such as smart road speed governor, cruise control, fuel economy, smart air inlet filter etc.
- o Development of bespoke software for testing features on HIL platforms.
- o Systems level interdisciplinary work such as governor tuning, transmission speed control etc. based on desired customer performance specifications for different types of vehicles.
- o Proficient with software such as Matlab, Simulink, C, Vector CANalyzer, Minitab and other bespoke tools.
- o Formally trained and certified by Cummins Inc. as a **Six Sigma DFSS** belt.
- o Trained in Project Management System.
- o Independent decision-making, multi-team based work system and leadership.

Rolls-Royce UTC, The University of Sheffield, UK (July 2009 – December 2011):

- o **Research Associate** in the Controls & Systems Engineering Rolls-Royce University Technology Centre.
- o Involved in R&D of control systems of commercial aero gas turbine engines of Rolls Royce plc.
- o Developed optimal aero-engine control strategies for obtaining maximum performance at minimum cost.
- o Use of tools such as Matlab/Simulink, C, Evolutionary Optimisation and model based development.
- o Worked in commercial research project development environment.
- o Have developed transferable skills like presentation, precise and concise reporting style etc.
- o Supervised and mentored students at both undergraduate and masters level on aero-engines projects.

Larsen & Toubro-EmSyS, India (March 2006 - August 2006):

- o **Software Engineer** in the domain of Embedded Control Systems for automobile applications.
- o Involved in designing of various motion control applications for automobiles.
- o Provided team leadership on a non-linear PID control based car steering control system project.
- o Designed an auto controller tuning algorithm for reducing time and effort in the tuning process.
- o Used software tools such as Matlab / Simulink toolboxes like RTW, SimPowerSyms, stateflow etc.
- o Have been trained in SEI-CMMI Level 5 quality management system.

ALSTOM Power Conversion, UK (March 2005 - October 2005):

- o Completed **MSc project** titled **Simulation Control of a Five Stand Cold Rolling Mill** at Alstom.
- o Work involved modelling, simulation and development of a tri-linear PID based control of the mill in Matlab and Simulink.
- o Designed a minimisation of least square error based PID controller-tuning algorithm.

Consulting Engineering Services (India) Pvt. Ltd (March 2002 - July 2004):

- o Majority stake now owned by **Jacobs Engineering Group Inc.**
- o Was **Assistant Engineer** in this premier ISO 9001:2000 Engineering Consultancy Company in the **design of Instrumentation & Control Engineering** systems for turnkey projects.
- o Worked on projects like Thermal Power Plants, water supply systems, oil refineries etc.
- o Involved in designing P&ID layout of plant, control loop stability assessment, development of Emergency shutdown system through use of sequential and overriding logic besides others.

Suyoga Technologies Pvt. Ltd, India (September 2001 - March 2002):

- o Was **Systems Engineer** in the field of **Embedded Systems** Engineering.
- o Exposed to the platforms such as C++, Assembly language, Microcontrollers and RTOS (VxWorks).

♦ **EDUCATION**

Doctor of Philosophy (September 2006 –July 2012):

- o Awarded PhD degree by **The University of Sheffield, UK** in the domain of **Control Engineering**.
- o Thesis titled **Model Predictive Control of Civil Aerospace Gas Turbine Engines**.
- o Research developed an innovative and feasible nonlinear predictive control technology for the Rolls-Royce Trent 1000 aero-engine with a smaller computational footprint than other predictive controllers.
- o Designed an evolutionary optimisation based predictive controller tuning system for meeting customised multiple engine performance, emissions and safety requirements.

Master of Science (September 2004-September 2005):

- o Awarded Master's degree by **Coventry University** in **Informatics & Control**.
- o Obtained Merit (>65%) and topped the programme.
- o Curriculum included modules of both software and control engineering.

Bachelor of Engineering (June 1996 to August 2001):

- o Awarded Bachelor's degree by **University of Pune, India** in **Instrumentation & Control** and obtained a **First Class (63.33 %)**.
- o Completed an Industrial project titled **Parameter monitoring of 2 DC Motors of a roll mill** in a seamless tube manufacturing factory.
- o Presented a paper titled **Neural Technology & its application in Process Industry** in college.

♦ **SCHOLARSHIPS**

- o Was awarded the **Dorothy Hodgkin Postgraduate Award Scholarship** for the Doctoral programme, by **Engineering and Physical Sciences Research Council of UK** and **Rolls-Royce plc**.
- o Was a **Commonwealth-DFID Scholar** for the Masters programme, awarded by the **UK Government**.

♦ **EXTRA-CURRICULAR ACTIVITIES**

Interest ranges from reading, photography, computers, traveling, mentoring, music, sports (cricket, table tennis, football) to theatres.

♦ **REFERENCES**

Available on request.

♦ **VISA STATUS**

No Sponsorship Required-Have Indefinite Leave to Remain.