AYUSHI YADAV

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Objective - Obtain a challenging role, applying creative problem solving and lean management skills with a growing company to achieve optimum utilization of its resources and maximum profits

EXPERIENCE

02/03/2020 – PRESENT

CONTROLS ENGINEER – EMBEDDED SOFTWARE DSP DEVELOPER, GENERAL ELECTRIC

- Producing requirement documents from ITNs and participating in EDRs. Cross-functional teamwork
- Model based development of Controls and Protection functionalities in HVDC in MATLAB and Simulink
- Preparation of test cases and unit test framework of developed model with harness in MATLAB
- Making soft and Bamboo builds of various tasks for component testing
- Component & Integration System testing on kit or target with validation team
- Preparation of SCN, Issue assessment and Test Report from the generated result
- Preparation of technical documents for customers like PGCIL, Nalcor
- Good debugging skills in various critical bugs like site issues, FST, FAT and in non-project activities like SVN, MATLAB
- Working knowledge of Visual DSP++ , Visual Studio, SAL
- Experience with repository management using GIT/SVN and Agile methodology Jira, and good hold on internal tools and softwares of GE
- Work on CIBs and Pentiums architecture
- Participation in continuous improvements like preparing training document (technical & non-technical) for new joiners for standardization
- Successfully completed MATLAB training and certification course of 6days organized by MathWorks

16/04/2018 – 31/10/2019

CONTROL SOFTWARE ENGINEER, BOMBARDIER TRANSPORTATION

- Experience on model base software testing
- Knowledge on Hardware in Loop (HIL & SIL) Systems and Simulation. (DSPACE, Control Desk, Automation Desk)
- Experience in software development life cycle
- Experience in requirement management in DOORs and repository management using version control in SVN

- Engaged with integration of requirements, development, code review and bug fixes of MCU scope, HLIB Library and DSP scope
- Prepare Test Cases, Test Scripts (MATLAB) for Overall Tests to be carried at the product level for Drive Control Unit used in Propulsion Converters
- Preparation of test specification from software library blocks requirement
- Preparation of Python based Test scripts and execute overall testing w.r.t test cases on real time simulators with mounted standalone DCUs.
- Developing, debugging, and testing of safety critical applications according to IEC61131 coding standard and issue reporting
- Preparation of Test Report from the generated results

02/03/2017 – 30/04/2017
INTERNSHIP, TECHNIPFMC INDIA PVT. LTD
- Study of Electrical Design for VA & S1 Development Project of ONGC.
- Learned Detail Electrical Designing and calculations of equipment like cable, distribution transformer and schematic/ wiring diagrams of DOL starters.

02/01/2017 – 24/02/2017
INTERNSHIP, FLUOR DANIEL INDIA PVT. LTD
- Power distribution calculations on Hydrogen Compressed and Production Unit of AL ZOUR Refinery Project (Kuwait).
- Learned Detail Designing of the Project and had done handwritten calculations.

31/05/2016 – 09/07/2016
INTERNSHIP, CONTINENTAL DEVICE INDIA PVT. LTD
- Power Assembly-production-testing, department familiarization, made a no-pass sensor for an automated machine.
- Succeeded in making a No Pass Sensor which was one of the sensor of Auto Handler Model – 786HT machine used in testing semiconductors.

25/05/2015 – 16/07/2015
INTERNSHIP, HPCL – MITTAL ENERGY LIMITED (HMEL)
- Did a detailed study of two key single line diagram of the captive power plant.
- Successfully completed vocational internship training.

EDUCATION

JULY 2017
BACHELOR OF TECHNOLOGY, MANIPAL UNIVERSITY JAIPUR, JAIPUR

- Electrical and Electronics Engineering
- CGPA – 6.7

JUNE 2013
12TH, PPS DAV PUBLIC SCHOOL, BATHINDA

- Did Main subjects – PCM
- Percentage – 60.5%

SKILLS

- MATLAB
- Simulink
- DOORs
- Python Scripting
- Confluence
- Bamboo
- RTDS
- DSPACE, Control Desk
- Visual Studio
- Visual DSP++
- Crucible Reviews
- Imagine 2

ADDITIONAL SKILLS

- Successfully Collaborate closely with multiple cross-functional teams across different geographical sites to define software design/implementation and integrate/validate software in latest released Integration software

- Contributed on major steps of SLDC (Requirements capture, Development, Testing, Debugging)

- Worked on ISO9001-2015 standard, for Profibus RS485 protocol.

- Ability to work in fast- paced development environment

- Extensive experience working in Agile development environment (Scrum, Kanban, Sprint Backlog). Catering to the changes & updates in sprint on daily basis, working as planned and estimated efforts for each task

- Conducted Knowledge Sharing Sessions (KSS) for Controls team (All Projects) to drive technical knowledge & optimum utilization of various tools to reduce efforts and time wastage by almost 60%

- Experience in working with different Communication protocols like Ethernet(TCP/UDP), RS232, MVB

ACTIVITIES

- Successfully completed MATLAB training and certification course of 6 days organized by MathWorks
- ISTQB certified at Foundation Level
- Participated in Embedded Systems workshop conducted by IIT-Kanpur held from 19th - 22nd March, 2015
- Participated in Digital VLSI Design workshop conducted by IIT-Kanpur held from 19th - 22nd March, 2015
- Worked as a volunteer of organizing committee in the 3rd Rajasthan Science Conference held at Manipal University Jaipur from 28th Feb-02nd March

MAJOR PROJECTS

Client	Project
NALCOR Energy, Canada	Lower Churchill Project (LCP) +350KV, 900MW HVDC Link
Power Grid Corporation of India Ltd (PGCIL)	Champa - Kurushetra (CK2) +800KV, 3000MW HVDC Bipole II