Navdeep Singh **Navdeepsinghperry@gmail.com**
Electronics and Communication Engineering **B.Tech.**
Chandigarh Engineering College, Landran **+91 9914240477**

STATEMENT OF PURPOSE

I am aspiring for continuous progress on both professional and personal fronts through all round skills with emphasis on assigned targets. I aim for a career which will do justice to my skills besides satisfying my curiosity and my constant urge to learn, know and experience more. And if provided with an opportunity I shall try my level best in satisfying my superiors in rightful discharge of my duties.

CORE COMPETENCIES

- Programming Languages: C#, .Net Framework, Groovy, Java, Embedded C, Visual Basic.
- Scripting Languages: Python, Batch Scripting, Perl, Java Script
- Documentation: Magic Draw.
- ASB for ETAS Hill Programming.
- GUI Designing: WinForms, WPF, ReactiveUI, DevExpress.
- Web Pages and Database Connectivity using PHP, ASP.
- Knowledge of implementing Design Patters and reuse code strategies, Mvvm.
- IDE's: Visual Studio, Visual Code, BlueJ, IntelliJ, PyCharm.

ACADEMIC PROFILE

Year	Qualification	Board/University	CPI / %
2012-2016	B. Tech	Chandigarh Engineering College, Landran	80%
2010-2011	Senior Secondary Examination	Central Board of Secondary Education	80%
2009-2010	Secondary Examination	Central Board of Secondary Education	65%

PROFESSIONAL FORTE

JOHN DEERE INDIA PVT.LTD| *Embedded Systems* [Jan'19-Dec'20]

Worked primarily on AUTOSAR and NMAS Automation Projects

Completely designed, developed AUTOSAR Conversion tools

- Gained knowledge about all essential working skills including Design patterns, GIT & Svn Automations, Magic Draw, Asynchronous Programming, AUTOSAR Schema's and understanding complex communication Extracts.

Projects

1) **ACE (AUTOSAR Configuration Expert**): I am part of JOHN DEERE ACE Team and my major responsibilities are to write the plugins in c# and groovy scripts for automation of Davinci Configurator.
   - I had developed scripts for MCU, CAN, LIN, PWM and various other modules. Also designed ASAP Tool plugin for ACE in Python.
2) **ACT (ARXML Conversion Tool):** This tool helps to create CAN Spreadsheet for JDOS Controllers from PREEVision Export Extract. It is implemented in Visual studio in c#, .net and python.
3) **Library Importer Tool:** It helps to create PREE-Vision Library using VNSM SAE messages.
4) **SIP Installer Tool:** It helps in installing SIP (if not installed) from SVN based on input (.dpa) project and installation of respective vector configurator, developer and external components in done.
5) **H/W Tracking Tool:** This tool is like a multi-user tool for keeping and maintaining H/w Record.

- All managers who have been given the admin access can use it to see what all inventory they have in various teams and thereby can manage the resources easily using GUI.

JOHN DEERE PVT.LTD| *Embedded Systems* [Jul'16-Dec'18]

Completely designed, developed various tools for AUTOSAR.

- Gained knowledge about all essential working skills including GUI Development, Visual studio, PyCharm, PREEVision, DaVinci Configurator and IntelliJ software and various programming paradigms

Projects

1) **ECT (EXCEL Conversion Tool):** This tool helps to create System Extract from CAN Spreadsheet in a single click. It resolves the manual efforts. We observed that 1500 messages were created in 10 minutes. Earlier, in PREEVision, it used to take around 50 minutes per message.
2) **DaVinci Project Assistance Tool:** Instead of acquiring all licenses, this tool helps to open the Vector Configurator in a specific license (basic, PRO, PRO_RTE, WF, VTT) Mode as per the user need.
3) **PREEVision Comparator Tool:** This tool helps to validate PREE-Vision Library data with standard VNSM SAE Data.
4) **H/W Sniffer Tool:** It improved the tracking mechanism of the Hardware devices (like Vector CANcaseXL, Debuggers, Evaluation Boards, Mini wigglers etc.) from manual to automated. Also, it helps to capture the usage of CANape, CANoe Software licenses for efficient usage of resources.

INTERNSHIPS

HCL | Embedded Systems **[** Jan'16-Jul'16]

Worked primarily on Language Embedded C and controllers 8051, ARDUINO, AVR, PIC, Raspberry Pi.

Projects

1) **Designed WEB Server Based AUTOMATION**: Helps in controlling devices in real time from different locations. **Modules**: Ethernet Shield using SPI Mode, **Microcontroller**: ARDUINO.

ADVANCE TECHNOLOGY | *VLSI Design* [May'13- Jul'13]

Worked primarily on VHDL and created a Robot which was controlled using android app.

AWARDS AND ACHEIVEMENTS

- Got nominated for *Budding Talent Award* for the year 2017. [2017]
- Received *WOW Award* for filling three Invention disclosures. [2017]
- Received *HERO of the Month Award* for having leadership qualities in taking Project responsibilities and for building credibility with the counter parts [2018]
- Received *EUREKA Award* for creating new innovative ideas for expensive licenses management and improving AUTOSAR efficiency. [2018]
- Received *WOW Award* and commendable performance Review from stakeholders for creating 8 complex Tools for AUTOSAR Adoption. [2019]
- Trained Peers on different programming scripts and languages.

ADDITIONAL

- Member of Colors Core Team at JOHN DEERE for organizing various department level events.
- **State player** of DART.
- **Strength**: Leadership, Helpful, Introspective, Hardworking.
- **Interests**: Singing, Reading, playing cricket and badminton.