

# Himanshu Gupta

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Firmware/Embedded Engineer with 4.6 years experience in developing electronic hardware projects and codes on coding platforms such as CCS, Contiki OS, Linux and Sensor Controller Studio. Experience on tools such as Cooja, Particle Web IDE and UniFlash programmer. Hands-on experience with different Micro-controllers such as CC1310 and CC2650.

Technical Skills		
Operating Systems	:	Linux, Contiki OS, Autosar(SOME-IP)
Languages	:	C/C++, Python
Tools	:	GCC, Make, QSPR, QXDM, QPST, e2 Studio
Debuggers	:	GDB, logcat, Wi-Fi logger, ADB

Education details:			
Qualification	University	Year of Passing	Percentage (%)
B.Tech(ECE)	Malout Institute of Management and Information Technology, Malout, Punjab, India	2015	72.8

Experience:		
Organization	Position	Duration
VVDN Technologies	Senior Software Engineer	June, 2019 – Till Now
Innovation of Thingz	Firmware Engineer	December 2017 – June, 2019 (1.6 years)
Global Edge Software, Bangalore For Client “Qualcomm, Hyderabad	Wireless Software Engineer	December 2015 - December 2017 (2 years)

Projects Handled:		
1	Security Solutions For Client “NXP”, Noida	<ul style="list-style-type: none"><li>Security Firmware Development for NXP Chipset.</li><li>Working on SOMEIP model.</li></ul>

2	Fuel Dispenser (VVDN Technologies)	<ul style="list-style-type: none"> <li>Bringup the Wifi Module on Ublox.</li> <li>Validate the Firmware API's.</li> </ul>
3	Smart Parking (Development Project (Innovation of Thingz))	<ul style="list-style-type: none"> <li>Firmware development on Contiki OS</li> <li>To work with different micro-controllers like CC1310, CC2650 for development of different projects.</li> <li>To develop code using different coding platforms like CCS, Contiki OS and sensor controller studio as per the requirement of the project.</li> <li>Design project flow by using different software's.</li> <li>Implement TCP/IP protocol using RPL-UDP protocol in Contiki OS.</li> <li>Work on tools such as Cooja, Particle Web IDE and UniFlash programmer.</li> </ul>
4	WLAN testing with Automation on Qualcomm Chipset (Qualcomm)	<ul style="list-style-type: none"> <li>Function and Stability testing of WLAN driver using Openwrt.</li> <li>Duration: 1 Years</li> <li>Team size: varied</li> </ul>
5	Analysis ath9k driver and Wi-Fi Architecture (Global Edge Software)	<ul style="list-style-type: none"> <li>Understand Wi-Fi Architecture</li> <li>Duration: 3 months</li> <li>Team size: 4</li> </ul>
6	802.11k Implementation (Global Edge Software)	<ul style="list-style-type: none"> <li>Implemented 802.11k features in mac80211 for ath9k.</li> <li>Duration: 5 Months</li> <li>Team size: 4</li> </ul>

### Trainings:

#### GESL training program (December-2015)

- C and data structure
- Software Engineering
- Linux Programming and internals
- Multi-threading.
- Network [TCP/IP] and socket Programming
- Knowledge on Various Unix commands and system calls.
- Personality Development [Self-awareness, Time Management, Team Work]

### Core Competencies:

- Good hold on device driver(Char device driver).
- Networking.
- Wireless Standard (802.11a, b, g, n)
- Wireless protection and security mechanisms.
- Linux internals.

- Batch & shell scripting.
- Socket programming in Linux.
- Hands-on experience on RPL protocol of Contiki OS.
- Hands-on experience with TI chips (CC1310, CC2650).
- Hands-on experience with Particle devices (Electron, photon)