**SHASHWAT VERMA**

363, Van Adrichemstraat, 2614BS, Delft

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| August 2015-Present | Master of Science in Embedded Systems (Specialisation: Software and Networking), TU Delft. |
| June 2010 - May 2014 | Bachelors of Technology in Electronics and Instrumentation, VIT university, Vellore, India. |

**Education:**

**Work Experience:**

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| Dec 2016 - Present  (part-time)  Sep 2016 – Dec 2016  June 2014 – June 2015 | **Research Assistant, Disdrometrics BV, Delft.**  Designing and testing prototypes for the stand-alone acoustic rain gauge and hail sensor.  **Research Intern, Disdrometrics BV, Delft.**  Designing and testing prototypes for the acoustic rain gauge. Developed a wireless inter-device communication system for stand-alone sensors.  **Program Analyst Trainee, Cognizant Technology Solutions, Kolkata.**  Worked as a developer in Oracle EBS (PL/SQL, Linux) for clients such as Norli and Realogy.  • Achievements: Part of best team in Q1 2015. |
| Jun 2012 – July 2012 | **Trainee, CEERI (**Central Electrical and Electronic Research Institute**), Pilani.**  Undergone an internship as System Design Trainee on implementing Digital filters on FPGA using Xilinx. |

**Projects:**

* **Master Thesis** (ongoing)**:** Developing a system for outdoor localisation and information transfer using VLC (visual light communication), applicable for blinds and robots.
* **Bachelor Thesis:** Automated Green-House Status Monitoring and Control Using Wireless DCS.

Developed working hardware modules which measures ambient parameters for green-house and control them using various actuators in real-time.

* Successfully deployed a wireless network, which collect real time garden data and send it to cloud for further processing, using 2 hop network (using ZigBee).
* Developed an embedded software that controls and stabilizes an unmanned aerial vehicle (UAV) with wireless communication (Bluetooth).
* Led team of 4 to implement a baggage management system using functional programming language, this was based on vanderlande’s system.
* Implemented Secure Communication between 3 stations by encrypting the data and sending it over a medium by interfacing with ARM microcontroller.
* Part of the team to present Efficient Traffic light system for Ambulance using LabVIEW. This projected was selected for final round of NI-yantra 2012 in Chennai (India).

**Extracurricular Activities**

* Served as a volunteer in local NGO (Siksha) during April 2004 - March 2007.
* Publicity Head for ISA-VIT Student Chapter for one term from July2012 to May 2013.
* Conducted a Grand Event (Robo-Ape) in GraVITas’12 (college’s technical festival).

**Skills:**

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| Professional | C, C++, Java, Arduino, MATLAB, NI LabVIEW, Python. |
| Intermediate | RTOS using C, Eagle PCB designer, Android development, SQL, PL/SQL, Word, Excel, PowerPoint. |

**Courses studied:**

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| MSc courses | Modern computer architecture, Real-time system, Embedded Real-time systems, Real-time software development, Smart-phone Sensing, Distributed Algorithms, Networking, Wireless Networking. |

**Languages:**

Fluent English and Hindi.

**Hobbies:**

Swimming, sketching, cooking and bowling.