

Vipin Madhavanunni

Riesenstr.13
67655, Kaiserslautern
Germany
☎ +49 (176) 39797171
✉ vipmadha@gmail.com



Personal Information

Date of Birth 20th August 1981
Place of Birth Kalladipatta, Kerala, India
Nationality Indian
Family Status Married

Education

June 2010 **Master of Science (by Research) in Information and Communication Engineering**, Anna University, Chennai, India, CGPA: 8.12/10.
Thesis: "Analysis of Open Source Drivers for IEEE 802.11 WLANs"
April 2003 **Bachelor of Engineering in Electronics and Communications Engineering**, Bharathidasan University, Trichy, India, 72.65% First Class.
Project : "Detection and analysis of burst signal from Laser Doppler velocimeter"
April 2000 **Diploma in Electronics and Communications**, Govt. Polytechnic, Kunnankulam, India, 73.82% First Class.

Experience

Industrial

January 2013 – **Senior Software Engineer**, embedUR systems India Ltd., Chennai, India.
July 2014

- Responsibilities
 - Preparation and review of functional, design and test documents.
 - Work in close collaboration with support engineers and clients to fix critical defects.
 - Mentor junior team members.
 - Software maintenance of WiFi Access Point Regulatory domain testing code.
- Achievements
 - Designed and implemented, ACL and split-tunnel for Office Extend Access Point CAPWAP.
 - Successfully delivered new features for product releases.

July 2010 – **Software Engineer**, embedUR systems India Ltd., Chennai, India.
December 2012

- Responsibilities
 - Preparation of functional, design and test documents.
 - Work in close collaboration with support engineers and clients to fix critical defects.
 - Software Maintenance of Enforcement Policy Management module for switch/router.
 - Software Maintenance of Legacy Wireless LAN Controller and Mesh Access Points.
- Achievements
 - Implemented QoS management for VOIP in Office Extend Access Point.
 - Designed and implemented firewall for Office Extend Access Points local traffic.
 - Successfully delivered critical fixes for product releases.

Research

- April 2004 – June 2010 **Research Engineer, AU-KBC Research Centre, Chennai, India.**
- Responsibilities
 - Implementation and testing of proof-of-concept projects.
 - Enhancement and testing of outdoor WLAN for coverage extension in realistic environment.
 - Guidance to set up WiFi pre-certification test lab.
 - Corporate course content preparation and teaching assistance in IEEE 802.11 concepts.
 - Achievements
 - Developed a new protocol for fault tolerant ad-hoc routing in wireless network.
 - Designed and developed a tool to analyse the per-packet response of wireless devices.
 - Developed a fast method for remote file integrity check.
 - Designed and developed a prototype for Dynamic Password Authentication Token.
 - Developed a web server defacement protector system.
 - Published papers in international conference.

Miscellaneous

- January 2015 – February 2015 **Project Assistant(Part Time), Software Technology Group, TU Kaiserslautern, Kaiserslautern, Germany.**
Implementing workflow and adding support for functionality test automation/report generation in Jenkins for EU project syncFree.
- April 2004 – June 2010 **System Administrator(Part time), AU - KBC Research Centre, Chennai, India.**
Maintenance, design and deployment of network/system infrastructure.
- January 2003 – March 2003 **Project Intern, Experimental Aerodynamics Division, National Aerospace Laboratories, Bangalore, India.**
Software Implementation for detection and analysis of burst signal from laser doppler velocimeter.

Technical skills

- Languages : C, Perl and Bash scripting
- Protocols : IEEE 802.11a/b/g/e/n/ac, TCP/IP, CAPWAP
- Tools : Development : Cscope, GNU Debugger
- Source Control : ClearCase, Acme, Git
- Bug Tracking : CDET, Bugzilla, Trac
- Networking : Wireshark, Omnipeak, Iperf, IxChariot
- OS : Linux flavours, Windows
- Devices : Familiar in configurations with Cisco 2K/3K switch and Cisco 5500/2500 WLAN controllers with Aironet 600/1700/2700/3600

Languages

- English Professional level
- Malayalam Mother tongue
- German Basic Knowledge

Other Details

- Hobbies Travelling, Trekking, Hiking, Photography
- Social Service
 - Volunteer for various environment conservation activities.
 - Actively participated in "India Against Corruption" movement 2011 - 2012.
 - Provided technical support for Nagapattinam police in Tsunami relief activities.