

# AANJHAN RANGANATHAN

---

Avenue de Rhodanie 64, 1007 Lausanne, Switzerland

+41 787 462 846; [aanjhan.ranganathan@epfl.ch](mailto:aanjhan.ranganathan@epfl.ch)

<http://www.tuxmaniac.com>

## Education

- **Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland**—School of Electronics  
*Masters in Electronics and Microelectronics*
    - CGPA : 5.44/6 , graduate in March 2010
  - **Anna University**—SSN College of Engineering, Chennai, India  
*Bachelors in Electronics and Communication*
    - Percentage : 83% (Overall), graduated in April 2005
- 

## Experience

- **Contract Employee, Google Inc. (GSoC)**—  
*May 2009 - August 2009*
  - Worked for RTEMS project on Memory Management Unit support. Details can be found in <http://www.rtems.org> and <http://code.google.com/p/rtems-mmu-support/wiki/GSoCFinalReport>
- **Robert Bosch India Ltd. (Car Multimedia Group)**—Bangalore, India  
*Senior Engineer: June 2005–June 2008*
  - Worked for Volkswagen and Audi OE Projects in the Premium Telephone team of 3 whose responsible for interfacing the car multimedia system with blue tooth enabled handsets. Responsible for Requirements Analysis, Design (High and Low Level), Implementation, Testing and Release. Been onsite in Germany for 2 months for Design/Development Discussions with the Customer.
  - ROM Correction Function Support. For MASK Processors future updates in Software can only be through ROM Correction functionality. Responsible for Requirement Analysis, Concept, Design and Implementation.
- **Teaching Assistant - Microsystems Laboratory (LSM), EPFL**—  
*October 2009 - November 2009*
  - Worked as a teaching assistant at the Microsystems laboratory under Prof. Alain Vachoux for Hardware System Modeling and EDA based VLSI design (Semi-Custom part) courses
- **Free Software**
  - Developer and maintainer of GNUsim8085, a 8085 simulator.  
[<http://gnusim8085.sourceforge.net>]
  - Active member of Ubuntu India Community.  
[<https://launchpad.net/people/aanjhan>]
  - Member of Ubuntu MOTU Science team that takes care of science packages.  
[<https://launchpad.net/people/motuscience>]

---

## Skills

- **Operating Systems:** GNU/Linux (Fedora, Debian, Ubuntu), Windows 98/2000/XP
- **Computer Languages:** Proficient in C,  $\LaTeX$ , Perl, Verilog, VHDL, Beginner in Python
- **Tools:** Version Control Systems, Cadence, Synopsys, Mentor Graphics Toolsets for Digital/Mixed Signal Design
- **Others:** Familiar 8051 MicroController, NEC V850, Protocols like CAN, McNet, Usage of Hardware Debuggers, XML Driven GUI/Embedded Systems Behaviour

---

## Research Papers/Publications/Projects

- Snoop Filters for reducing energy consumption in Multiprocessor systems, Semester Project at Processor Architecture Laboratory, EPFL, Switzerland
- Linux and \*BSD feasibility study for Automotive Embedded Software. Accepted by ARAI for SIAT 2007 International Conference at Pune, INDIA (SAE Paper No. 2007-26-057)
- Hybrid Electric vehicle with Intelligent Drive Switching, Presented at IIT Bombay, SAE Student Conference at PSG Tech Coimbatore
- "Virtual Vision - Module for the Blind" at IIT Bombay [Techfest 2005]
- "Poster Presentation on RepoFS at International IEEE High Performance Computing Conference, Bangalore, INDIA" <http://www.hipc.org/hipc2006/posters/repofs.pdf>

---

## Awards

- 'Young Scientist Award 2004' by the INDIAN SCIENCE MONITOR, 'Distinguished Alumni' award from SSN Institutions

---

## Activities/Workshops Conducted

- Free VLSI CAD Tools at Jawaharlal nNehru University, Delhi [<http://freed.in>]
- "Icarus Verilog and Free/Open Source EDA Tools" at Indian Institute of Technology Madras.
- "Hybrid Electric Vehicle - with Intelligent Drive Switching" at IIT Bombay [Techfest 2004]
- "Several others mentioned at <http://www.tuxmaniac.com>"

---

## Social Activities

- Organized and conducted workshops for School/College students on 'Developing Leadership Qualities' as the head of the technical division of 'PEOPLE FIRST', a youth organization.
- Active Participation in Linux demo Days Conducted by the Chennai Linux users Group in creating Awareness on FLOSS to students in both the semi-urban and urban areas.