

- Skills**
- Software: Created core IP tooling powering Arm CoreLink Coherent Mesh Networks.  
Hardware: RTL & test-bench code generation.  
People Management: Technical lead for IP interconnect tooling.  
Interest: Hardware and software technologies.
- Technology**
- Expert: Ruby, Python, Java, JavaScript / ES6, YAML, JSON, C, Perl, Golang, IP-XACT, Linux.  
Fluent: Verilog, SystemVerilog, Bash, PHP, Groovy, CSS3, SVG, XML, HTML5, Messaging system/  
AMQP, Cloud/AWS/Digitalocean, OOP, Distributed system.  
Tools: VS code, Git, Bamboo, Jenkins, HPC cluster, NFS storage, Verilog (Questa, Mentor, VCS), VS  
code, Cluster, Linux OS (Redhat, Debian/Ubuntu), Docker / VM, MongoDB, Java ecosystem, GCC,  
Shell, Make, Gitlab, GitHub, Travis-CI, AWS, DigitalOcean, GoogleCloud and more.
- Experience**
- Staff Software Engineer, Arm Inc / SoftBank Group, Austin, TX — 2014-present
- Technical lead. [ Java, Ruby, Python ]
- Drive IP tooling ROADMAP across teams (RTL design, validation, perf model, GUI, release...).
  - Keep rapid development on track with minimal testing suite active.
  - Update data model with IP development.
- Architect & develop an IP tooling stack handling the full IP life-cycle.
- Generate top level view. [ Ruby, Verilog, Vcs, QuestaSim, IUS]
  - Register modeling RTL, IP-XACT, RAL. [Ruby, UVM, SystemVerilog, MTI, IP-XACT, Make]
  - Configurable IP specification. [YAML]
  - Design Rule Checker rule engine. [Ruby, YAML]
  - Configuration space coverage analysis and 1wise generation [Python, Ruby]
  - Documentation generation [Ruby, ERB, XML]
  - Script / API to configure IP [Ruby]
  - IP-XACT standard bus creation for Arm IP. [XML]
  - GUI integration with Eclipse IDE [Java, Eclipse, Ruby]
  - Continuous deliverable solution.
- Support multiple engineer groups across India, UK, USA.
- Senior Software Engineer, Arm Inc, Austin, TX — 2012-2014
- Perform investigation leading to the adoption of a new technology, which reduced the overall project development cost. [ Spring 4, Angular, AMQP ]
  - Develop an automated real-time web dashboard frontend / backend to track engineer work progress. This application improved communication, and sped up the delivery time. [Java, Javascript, HTML, WebSocket, Tomcat, Spring, Angular 2]
  - Create an automated delivery system for large IP packages that shortened the time to software release. [Java / Bash]
- Software Engineer, ARM Inc, Grenoble, France — 2010-2013
- Develop and test a web application allowing the partner to customize an IP. It enables the customer to run live compilation/simulation, view logs, download final product...
- Graduate Software Engineer, ARM France, Grenoble, France — 2009-2010
- Maintain and develop an enterprise job scheduler to distributed simulation on LSF (~100k jobs). [ LSF, Java, HPC ]

**Education** - M.S. Semiconductor and Telecommunication - Polytech'Marseille, France - 2006-2009  
- Advanced maths and physics class - 2004-2006

**R&D / Award** - 2009 World Mobile Congress, Barcelona, Bronze Medal of the SIMagine  
Innovative social and secure application using NFC / java on SIM card (TaggyNet).  
- Intern in the C.N.R.S. university laboratory over the summer of 2008.

**Other** Fluent: French (native), English (fluent)  
Immigration status: Green card holder  
Activity: Kiteboarding, Biking, Traveling, Running after my little one

**Open source** Side project hosted on Github: <https://github.com/jvmvik>  
Medium articles: <https://medium.com/@vikoky>