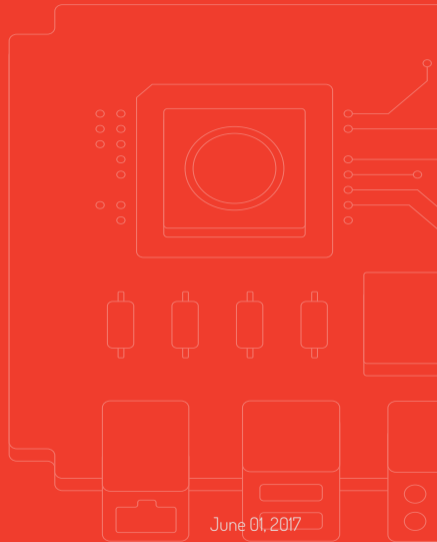


DORS/CLUC 2017

FOSS as a Business

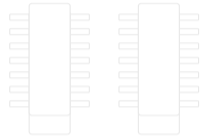
Davor Popović · Hrvoje Varga

sartura



About the Presenters

- Davor Popović
- Hrvoje Varga



About this presentation

- About Sartura
- FOSS
- Internal Open Source technologies
 - OpenWrt
 - The ultimate Open Source development environment



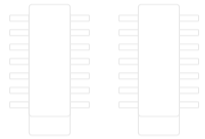
Sartura

- **Sartura** - the name comes from Latin and translates as a patch
- Gathering Linux enthusiasts and Open Source supporters
- Delivering high-quality and safe software solutions



Services

- Development
- Integration
- Consulting
- Training



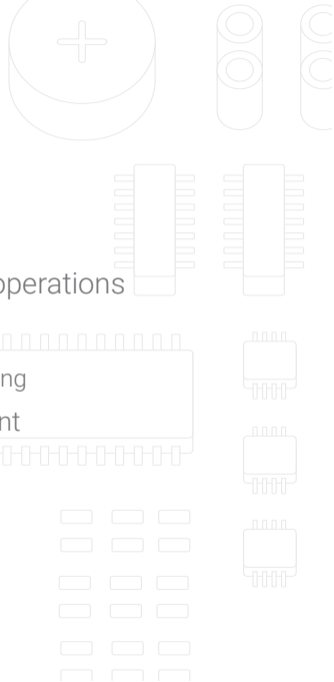
Industries

- Embedded Device Manufacturers
- Telecom
- Semiconductor Manufacturers
- Open Source



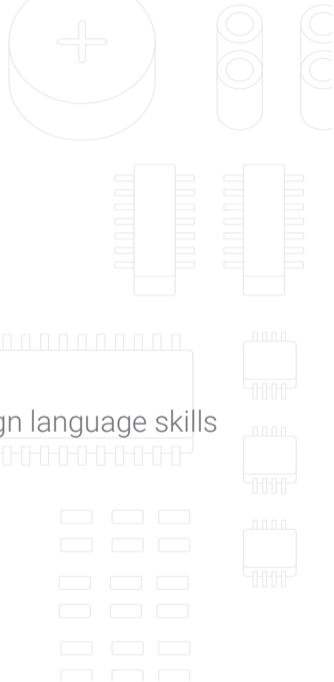
Multidisciplinary approach

- Increasing popularity of Linux in all aspects of industrial operations
 - Growing need for multidisciplinary engineers
 - Software, system, front-end, DevOps, integration and testing
 - Experience in all areas of embedded software development



Customer and employee satisfaction

- Flexible work hours
- Work from office (Zagreb, Osijek, Rijeka) or remotely
- Pleasant work environment
- Self-improvement - communication, leadership and foreign language skills
- Best-practice internal organizational processes



Competitive advantages

- Continuous reinvestment of profit in the business and steady growth
- Long-term experience in Open Source projects
- Face-to-face meetings with prpl Foundation
- Knowledge about the Open Source community and its principles
- Active participation in a large number of various projects
- Frequent business travel and participation on international conferences such as OpenWrt Summit, Embedded World and Mobile World Congress

About

- FOSS - Free and Open Source Software
- Open licenses
- *Right to use, copy, modify & redistribute*
- Access to source



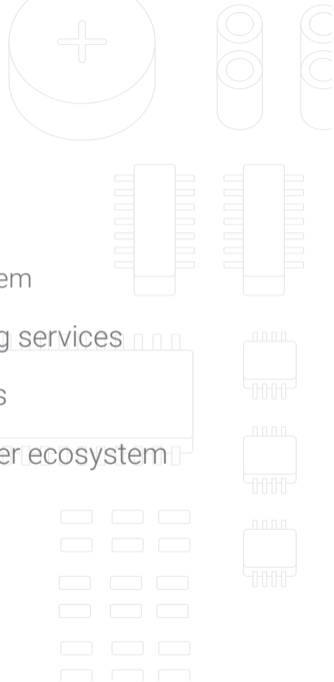
Benefits

- Decreasing costs
- Increasing stability and security
- Access to source

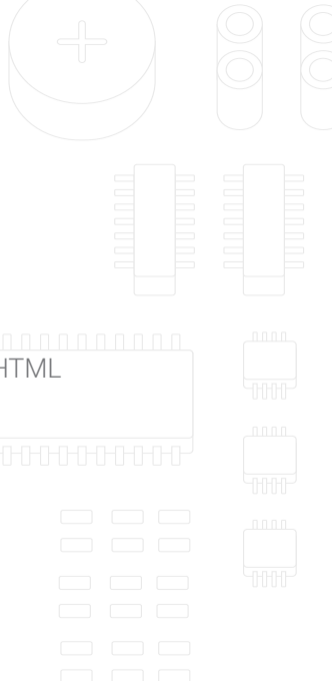


Strengths

- Low-level OpenWrt and Linux functionalities
 - Development and support surrounding the entire ecosystem
- Programming, Linux system integration, expert consulting services
- Developers and supporters of different Open Source tools
- Focus on OpenWrt GNU/Linux distribution and the broader ecosystem
- Web UIs, testing, documentation, marketing collateral

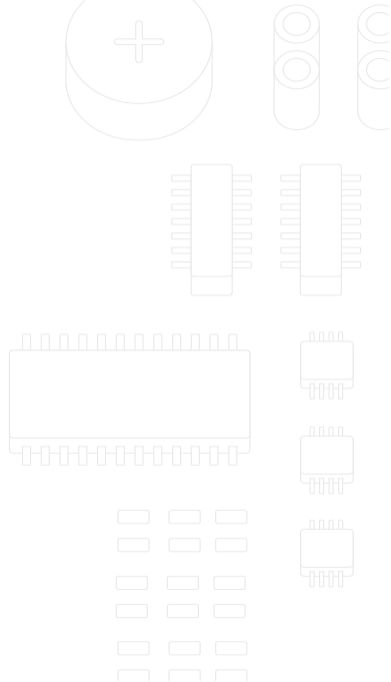


- Our team consist of Linux enthusiasts specialized in:
 - Back-end C and Go Linux developers
 - Embedded Linux administrators and Firmware engineers
 - Front-end developers specialized in JavaScript, CSS and HTML



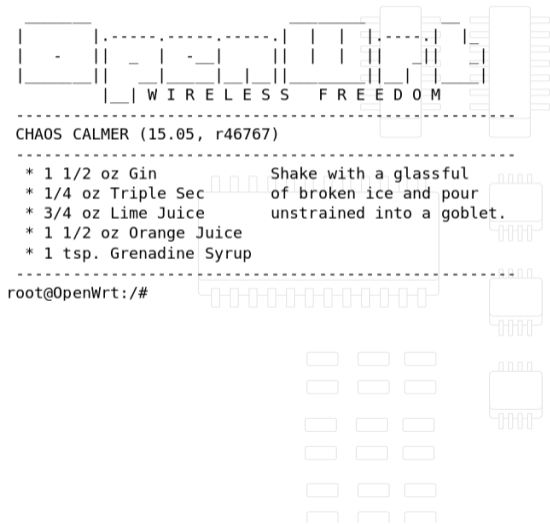
Internal development environment

- Based on Linux
 - Emphasis on Arch and Gentoo
- Programming languages (C, C++, Go, etc.)
- Scripting languages (Python, Lua)
- Containerization technologies (Docker, LXC)



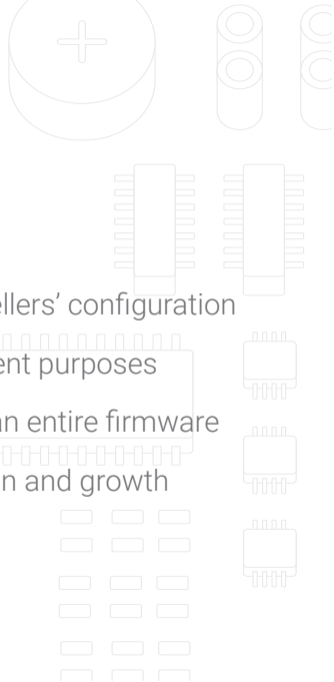
OpenWrt

- Open Source firmware for embedded devices
- Highly customizable and powerful variant of Linux for routers
- Sartura - active contributors to Open Source projects such as OpenWrt
 - Close collaboration with partners and Open Source community

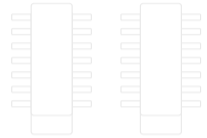


OpenWrt advantages

- Free Linux distribution
- Freeing users and customers from vendor lock-up and sellers' configuration
- The ability to customize devices with packages for different purposes
- The possibility to program applications without building an entire firmware
- Adaptability to client's needs and to companies' expansion and growth



- Small and modular design
- Easy device management
- Pre-assembled images at disposal
- Centralized knowledge base in form of Wiki and Forum
- Impressive package support
 - Availability of more than 3,500 packages



The ultimate Open Source development environment

- Some of our team members in Osijek are very active in writing blogs about Open Source technologies
- The ultimate Open Source development environment

- All information for setting up a personal development work environment at Sartura

Specifications	Explanation
Step-by-step format	a prior knowledge about GNU/Linux is not required
Thoroughness	from a computer with no installed operating system to a system fully adaptable to software development needs
Well-equipped	exclusively with Open Source technologies
Open Source	a constant development
Experience	my personal and work experience at Sartura (learning from mistakes)



Positives

- Quality
- Customizable, flexible
- Interoperability
- Community
- Free trial
- No vendor lockdown



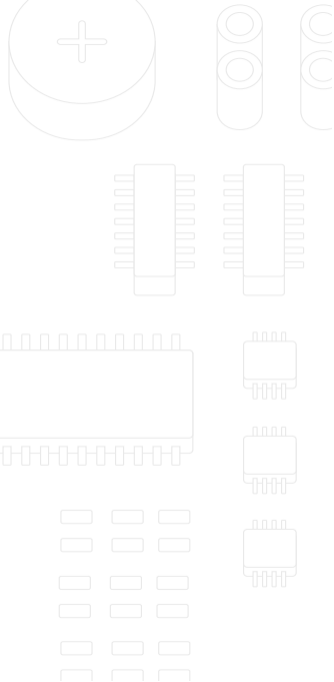
Negatives

- Dealing with proprietary software
- Hidden costs
- Learning curve
- Not user-friendly
- Risk of abandonment



Jobs at Sartura

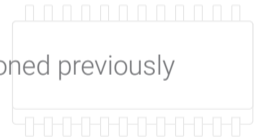
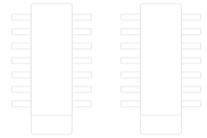
- We are interested in prospects with experience in:
 - Programming languages (C, C ++, GoLang)
 - Scripting languages (bash, Python)
 - Frontend technologies (Vue.js framework, SASS, HTML)





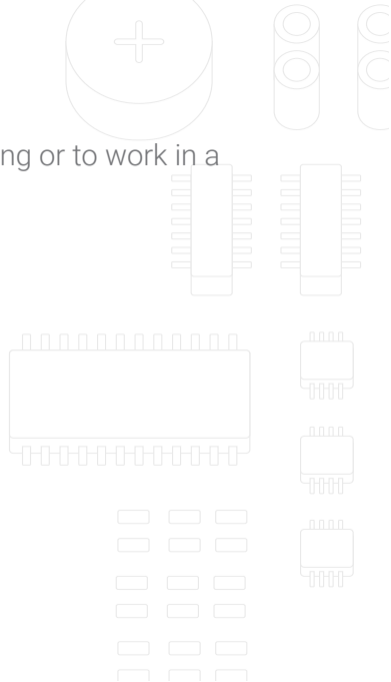
○ Advantage will be given to prospects who:

- Use system version control tools (Git)
- Have published projects on any of several Git services
- Work in Arch or Gentoo distribution
- Have experience with any of the technologies mentioned previously



- Interested prospects are invited to apply for co-tutoring or to work in a professional team on the following positions:
 - C developer
 - Embedded Linux Administrator
 - Front-end developer
 - Go developer

requests should be sent to posao@sartura.hr



FOSS as a Business

davor.popovic@sartura.hr · hrvoje.varga@sartura.hr



info@sartura.hr
www.sartura.hr

