

# Living Open Source at Siemens

Jan Kiszka, Principal Key Expert

# We've Come a Long Way...





open source siemens



News

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Tia portal

Manifesto

Videos

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Books

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Finance

About 128.000.000 results (0,42 seconds)



Siemens

<https://opensource.siemens.com>

## Open Source @ Siemens

Driving an Inner Source culture at **Siemens** helps us become better **Open Source** citizens. This means following best practices from the **open source** world, and ...

### Discover events

Siemens Open Source Activities and Events. ... 23<sup>rd</sup> & 24<sup>th</sup> of ...

### Open Source @ Siemens 2022

17<sup>th</sup> & 18<sup>th</sup> of May 2022. The annual event series by Siemens ...

### Explore projects

Siemens Open Source Activities and Events. ... ROS# is a set of ...

### Manifesto

Siemens has resolved to be an active and reliable member in ...

[More results from siemens.com »](#)

# Being Part of the Communities

## On this page

- Linux & Embedded
  - Civil Infrastructure Platform (CIP)
  - coreboot
  - isar
  - SWUpdate
  - u-boot
  - xenomai
- License & Compliance
  - fossology
  - sw360
- DevOps
  - GitLab
  - python-gitlab
  - renovate
- Web of Things
  - ediTDor
  - Thingweb node-wot

## Community Projects

Over the years, Siemens has been steadily increasing collaboration with open source projects. Below is a list of some of the major community projects we have been involved in.

# Being Part of the Communities & Building the Communities

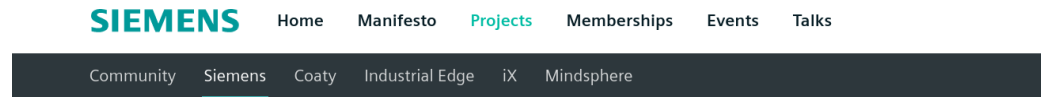
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## Open Source by Siemens

You'll find a growing list of projects published by Siemens that you can explore below. Head over to [github.com/siemens](https://github.com/siemens) for a more complete list!

On top of our core GitHub organization, you'll find projects hosted at some of our product-specific organizations (for example [github.com/mindsphere](https://github.com/mindsphere) and [github.com/industrial-edge](https://github.com/industrial-edge)) and at [gitlab.com/siemens](https://gitlab.com/siemens).

## On this page

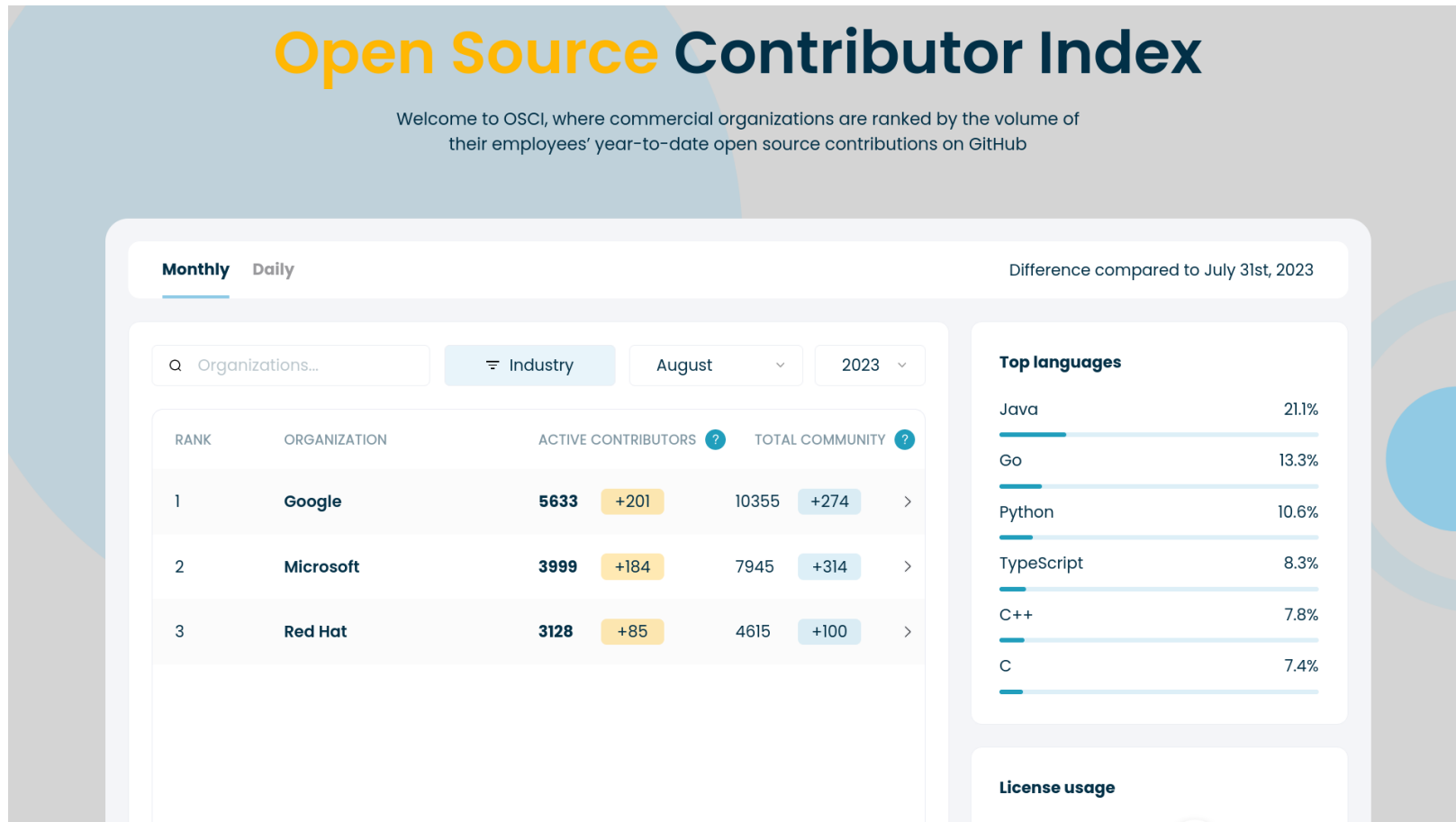
- Linux & Embedded
  - Jailhouse
  - efibootguard
  - EMB<sup>2</sup>
  - ros-sharp
  - meta-iot2000
  - meta-iot2050
  - mtda
  - kas
- Security
  - fluffi
  - libsecutils
  - libuta
  - gencmpclient
- Other projects
  - DRace
  - simatic-s7-webserver-api

# Open Source As Direct Channel to Our Customers



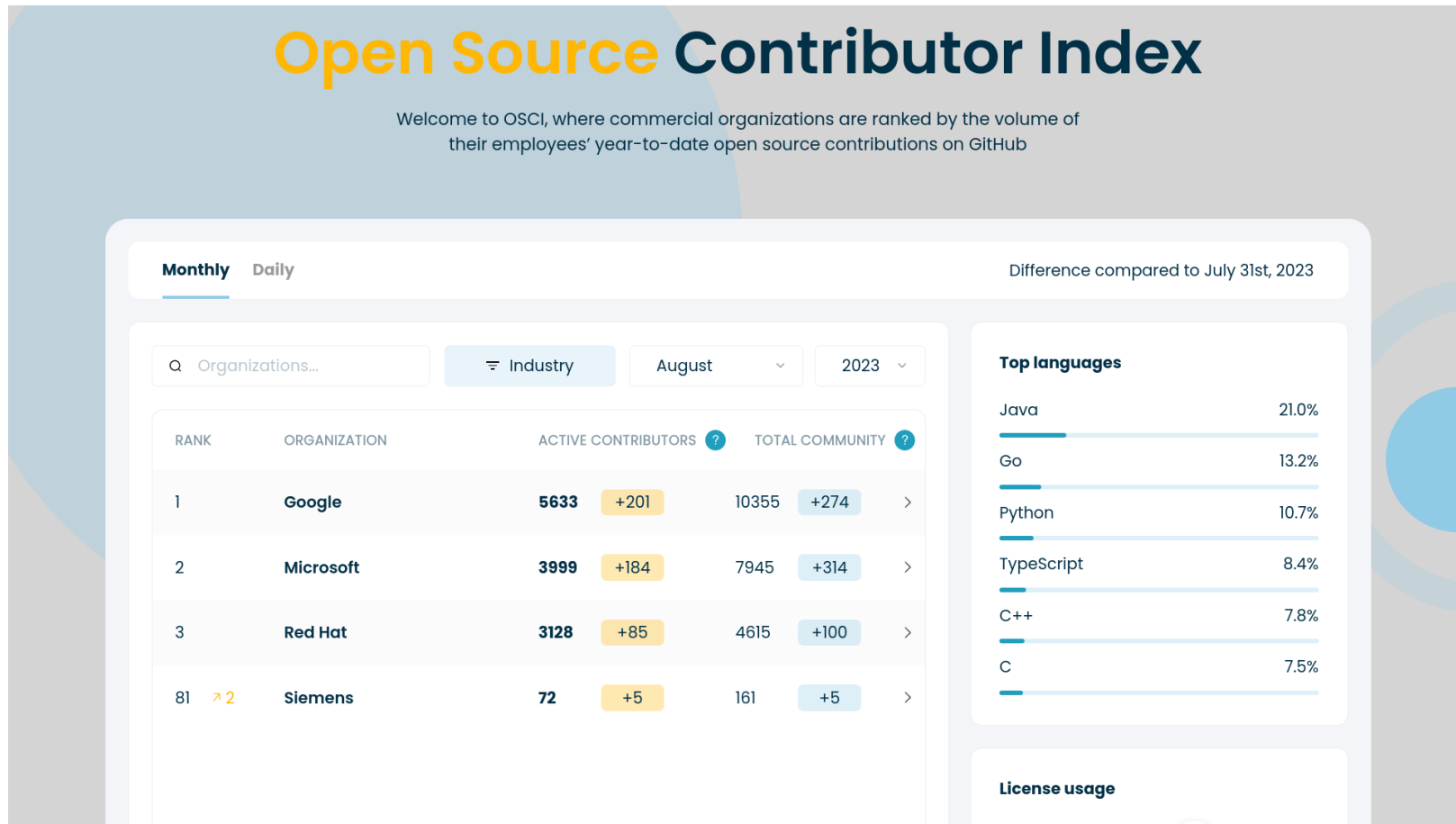
A screenshot of the GitHub repository page for 'siemens / meta-iot2050'. The repository is public and has 114 stars, 58 forks, and 23 issues. The main branch is 'master'. The repository description is 'SIMATIC IOT2050 Isar/Debian Board Support Package'. The 'About' section lists tags: 'sdk', 'debian', 'iot-gateway', and 'isar'. The 'README.md' file is open, showing the title 'META-IOT2050' and the text: 'This Isar layer contains recipes, configuration and other artifacts that are specific to Debian-based IOT2050 product.' Recent commits are listed, including 'linux-iot2050: Update to v5.1...' by 'jan-kiszka and BaochengSu' 2 weeks ago with 767 stars, and 'cip-core-patches' by 'isar-cip-core' last month.

## How Do We Compare (on GitHub)?



Source: <https://opensourceindex.io>

## Could Be Better...



Source: <https://opensourceindex.io>



Indeed!

# Open Source Contributor Index

Welcome to OSCI, where commercial organizations are ranked by the volume of their employees' year-to-date open source contributions on GitHub

Monthly Daily Difference compared to July 31st, 2023

Q Organizations... Industry August 2023

RANK	ORGANIZATION	ACTIVE CONTRIBUTORS ?	TOTAL COMMUNITY ?
1	Google	5633 +201	10355 +274
2	Microsoft	3999 +184	7945 +314
3	Red Hat	3128 +85	4615 +100
13	Huawei	515 +17	1272 +59
28	Tencent	289 +14	798 +40
81	Siemens	72 +5	161 +5

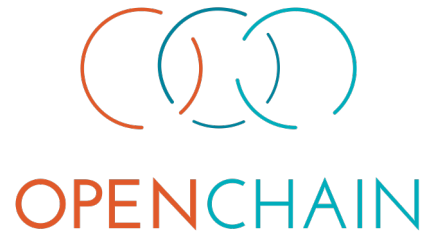
**Top languages**

- Java 20.2%
- Go 13.0%
- Python 10.5%
- C++ 8.1%
- TypeScript 8.0%
- C 8.0%

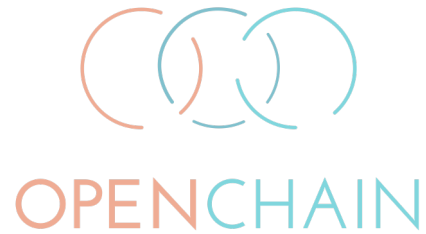
**License usage**

Source: <https://opensourceindex.io>

## One Important Cornerstone: Our Projects Memberships



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*2016: Co-initiator & founding member*



## Forking is Easy – At the Beginning...

### Upstream First

Using and contributing to open source projects helps us provide more reliable products and develop faster. The Linux kernel, Debian, Yocto, coreboot, U-Boot, SWUpdate, and many other projects, have been a large part of the Siemens embedded story - and we want to give back!

This applies not just to our products, but the tools we use to develop them. Siemens is one of the largest contributors to GitLab, which powers our self-hosted social coding platform.

Source: <https://opensource.siemens.com>



# The Siemens Open Source Manifesto

## Company Principles

1. **Encourage Open Source:** Siemens will support and empower its employees to use, contribute to, and create Open Source projects.
2. **Facilitate Participation:** Siemens will drive and foster active engagement in Open Source activities relevant to our company's projects.
3. **Grow Through Exposure:** Siemens will encourage and facilitate learning and advancement of its employees through Open Source activities.
4. **Promote Visibility:** Siemens will continuously improve and maintain a positive reputation in the Open Source community.

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## Employee Principles

1. **Prefer Open Source:** Employees will look for suitable Open Source solutions before writing or using custom code.
2. **Contribute:** Employees will favor contributing to Open Source projects over local changes within the scope of their day-to-day work.
3. **Foster Teamwork:** Employees will collaborate and support each other in driving Open Source efforts.
4. **Be Responsible Citizens:** Employees will always act responsibly in the Open Source community, with care and respect in both content and communication.

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## Signatories

Are you a Siemens employee and want to join the supporters?

[Sign me up !\[\]\(e8557ab270d5fcb246b3d61c658992cc\_img.jpg\)](#)

Source: <https://opensource.siemens.com>

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- Pascal Bach (Open Source Engineer & Architect, Siemens Smart Infrastructure)
- Patrick Wicki (Working Student, Siemens Smart Infrastructure)
- Pedram Hadjian (Senior Software Architect, Siemens Smart Infrastructure)
- Peter Koerte (Chief Technology & Strategy Officer)
- Philipp Würsch (Software Engineer, Siemens Smart Infrastructure)

# It's All About Sustainability, Also in OSS





## It's All About Sustainability, Also in OSS



### Sponsors

The awesome organizations who are making DebConf 23 possible.

#### Platinum Sponsors

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# SIEMENS



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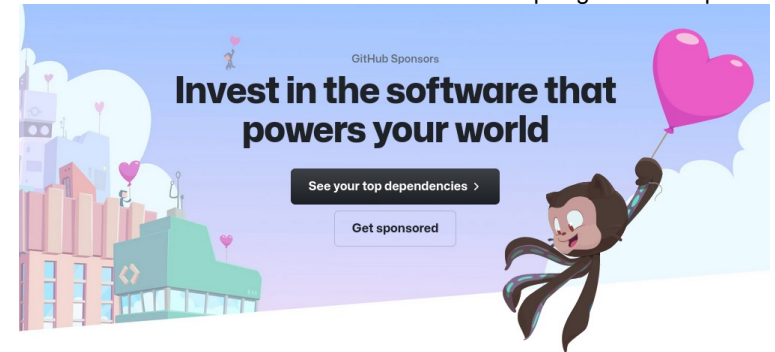
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# SIEMENS

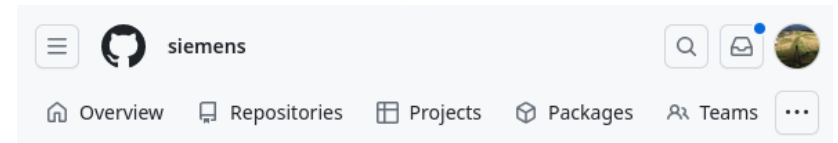


Source: <https://github.com/sponsors>



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**siemens** has sponsored **14** organizations and maintainers in the past

# Siemens Open Source

# Contact

Published by Siemens Technology

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<https://opensource.siemens.com>