The **Software/Hardware Integration Lab (LISHA)** was founded in 1985 to promote research in the frontiers between hardware and software. Since then, it has dedicated considerable efforts to research in areas such as *computer architecture*, *operating systems*, *computer networks* and the related *applications*. Currently, the laboratory focuses on innovative techniques and tools to support the development of *embedded systems*.

**LISHA is part of EMBRAPPI MOVE**

LISHA is part of the recently created **EMBRAPPI Institute for Mobility Technologies (MOVE)**.

**SBESC 2021 and LADC 2021**

LISHA hosted **SBESC 2021** and **LADC 2021**, the reference conferences of Computer Engineering and Dependability in Latin America.

**OpenEPOS 2.2**

A new version of OpenEPOS has been released! Check the **new features**.

**IoT Platform**

**LISHA's IoT Platform** now supports dozens of research projects. For further information about how to join it, please check the **link**.

**SmartData**

A new version of **LISHA's IoT Platform** based on SmartData and the Trustfull Space-Time Protocol(TSTP) is now available!

**Rota 2030 with Renault**

LISHA and **Renault** are joining forces to develop innovative solutions for the automotive industry in the realm of **Program Rota 2030**. **Prof. Giovani Gracioli** will lead a team of experts at LISHA on the pursuit of an Intelligent Data Acquisition and Analysis System for Automotive Controllers.

**LISHA and AQTech for Smart Energy**

LISHA and **AQTech** are working together to make hydroelectric power generators more intelligent.
**SmartX**

**LISHA's CPS Management Platform** is now fully integrated with the **IoT Platform**, adding features such as defect tracking, logging, geolocation, and service ticketing.

**Prof. Fröhlich** will lead a multidisciplinary team to develop advanced tools for predictive maintenance of large hydroelectric generators. [Read more ...]

**MCTIC's IA² Program**

LISHA is now part of **MCTIC's IA² Program**. **Prof. Gustavo Medeiros de Araújo** will be working together with accelerators **HARDS** and **DARWIN** and **SOFTEX** to support startups while innovating with AI solutions to real problems.