

# Lucas Guilherme Hübner

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## EDUCATION

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**Universidade Estadual do Oeste do Paraná – UNIOESTE** Foz do Iguaçu, Paraná  
M.S. in Computer Science and Electrical Engineering 2017–2020  
– Thesis: “Real Time Heart Rhythm Classification Applying Embedded Technologies” Link:  
<http://tede.unioeste.br/handle/tede/5114>

**Universidade Estadual do Oeste do Paraná – UNIOESTE** Foz do Iguaçu, Paraná  
B.S. in Computer Science 2013–2016  
– Thesis: “Evaluation of the Performance of Communication Protocols for Internet of Things: A Case Study”

## EXPERIENCE

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**ACT Digital**  
Senior Embedded Systems Analyst Jun 2022 – Today  
<https://actdigital.com/>  
External developer on TKElevator <https://www.tkelevator.com/>, working with Yocto, Bash, Bamboo CI, C/C++.

**LEAN AUTOMATION SMART SYSTEMS S.A. – LASSE** Toledo, PR  
Embedded Systems Analyst Aug 2021 – Mar 2022  
<http://lasse.ind.br/>  
Worked with Ruby on Rails and Python to integrate solar panel data into a dashboard.

**Fundação Parque Tecnológico Itaipu – FPTI** Foz do Iguaçu, PR  
Systems Analyst Aug 2018 – Jun 2021  
<https://www.pti.org.br/pt-br/lasse>  
– CBS-Com  
– Development of an embedded system to communicate between the CB-Insight application and the intern boards of the Circuit Breaker Sentinel equipment.  
– Modbus Collector  
– Development of an modbus data collector that requests an equipment list on a WebService, read the equipment channels and send each value to a specific Kafka topic on JSON format.  
– Web Platform for Visualizing Single-Line Diagram  
– REACT application to see in real time events that came from a Kafka topic to a point in a single-line diagram.  
– SRPPD  
– Optimizing and fixing bugs on a kernel module that captures analogic and digital data from a National Instruments board.

**Fundação Parque Tecnológico Itaipu – FPTI** Foz do Iguaçu, PR  
Internship Set 2016 – Jul 2018  
<https://www.pti.org.br/pt-br/lasse>  
– CBS-Com  
– Development of an embedded system to communicate between the CB-Insight application and the intern boards of the Circuit Breaker Sentinel equipment.

## Smart Technology For Agribusiness Care – STAC

Partner Owner

<https://agrostac.com.br/>

- Embedded Systems Developer
- Development of circuit boards and firmware for data acquisition using ESP32, ESP8266 and Arduino with communication via WiFi and LoRa.

Foz do Iguaçu, PR

Jul 2016 – Feb 2020

## Instituto de Tecnologia Aplicada a Inovação – ITAI

Internship

<https://itai.org.br/>

- RFID Authentication Module
- Development of an system to authenticate users via RFID to unlock doors. Technologies applied:
  - \* WebServer API: Ruby on Rails;
  - \* Authentication Hardware: Arduino.

Foz do Iguaçu, PR

Aug 2015 – Dec 2015

## TEACHING

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- **Teacher** at Centro Universitário União das Américas (UNIAMÉRICA) Aug 2020 – Today  
*Software Engineering*  
Subjects: Object Oriented Programming (Java/Python/C++/C#), Databases, SQL, Backend, Arduino and basic electronics.  
Site: <https://uniamerica.br/boulevard/graduacao/engenharia-de-software>  
<https://uniamerica.br/boulevard/graduacao/analise-e-desenvolvimento-de-sistemas>

## PUBLICATIONS

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- [1] L. G. Hubner and A. Kauati, “Comparison between j48 and mlp on qrs classification through complexity measures”, 2020. [Online]. Available: <http://www.sbeb.org.br/site/cbeb/>.
- [2] L. G. Hubner, A. G. Maletzke, B. L. de Nadai, R. L. Schaefer, W. Zalewski, and C. A. Ferrero, “Fb-dt: An improvement in the brute force algorithm for motifs discovery”, *IEEE Latin America Transactions*, vol. 15, no. 8, pp. 1542–1546, 2017. [Online]. Available: <https://ieeexplore.ieee.org/abstract/document/7994804>.
- [3] L. G. Hübner, A. G. Maletzke, B. L. de Nadai, R. L. Schaefer, and J. N. Maciel, “Uma ferramenta web para a identificação de motifs em séries temporais”, 2015. [Online]. Available: <http://eventosunioeste.unioeste.br/index.php/eaicti/anais-do-evento>.
- [4] L. G. Hübner, A. G. Maletzke, B. L. de Nadai, R. L. Schaefer, and J. N. Maciel, “Strategies for optimizing the brute force algorithm for identifying motifs in time series”, 2015. [Online]. Available: <https://uspdigital.usp.br/siicusp/siicPublicacao.jsp?codmnu=7210>.

## SKILLS

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- **Programming Languages:** C, C++, Java, Javascript, C#, Python, Ruby, Bash
- **Tools/Frameworks :** Yocto, Buildroot, QT, React, NodeJS
- **Operational Systems:** Windows, Linux
- **Platforms:** ESP8266, ESP32, Arduino
- **Text Editors:** LaTeX, Microsoft Word, OpenOffice Writer

## LANGUAGES

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- **Portuguese:** Native
- **English:** C2
- **EXAM:** <https://www.efset.org/cert/TVsevp>

## PROJECTS

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### **Arduino as a Tool of Automation and Teaching (2015 –2016)**

A project to promote and refine theoretical knowledge acquired on the Computer Science course using the programming and electronic in a practical study case related to automation, using Hardware Free platforms like Arduino.