

**Henrique Alves Pocinho**  
[henrique.a.pocinho@tecnico.ulisboa.com](mailto:henrique.a.pocinho@tecnico.ulisboa.com)  
[hapocinho.com](http://hapocinho.com)  
[ResearchGate](#)  
 [Google Scholar](#)

## Education

2024	<b>Erasmus</b> Exchange Student, Electronics Engineering, Politecnico di Milano, Milan, Italy.	
2023-2026*	<b>M.Sc.</b> in Electrical and Computer Engineering - Specialization in Electronic Circuits and Systems, Instituto Superior Técnico, Lisbon, Portugal.	-
2020 - 2023	<b>B.Sc.</b> in Electrical and Computer Engineering, Instituto Superior Técnico, Lisbon, Portugal.	Final Grade - 18 (out of 20)

## Research Experience

2024 - Now	Intern Assistant, <a href="#">SA-NECS</a> , INESC-ID, (Advisor: <a href="#">Prof. Marcelino Santos</a> )
2023 - 2024	Research Fellow, <a href="#">ASIC</a> , INESC-MN, (Advisor: <a href="#">Dr. Diogo Caetano</a> )
2023	Intern, <a href="#">ASIC</a> , INESC-MN, (Advisor: <a href="#">Dr. Diogo Caetano</a> )

## Industry Experience

2025 - Now	Test Engineer, <a href="#">SiliconGate</a> , Lisbon, Portugal
2023 - 2025	Test Engineer Intern, <a href="#">SiliconGate</a> , Lisbon, Portugal

## Awards, Honors & Diplomas

2023/24	Excellent Teacher Award
2023/22	Academic Excellence Award
2023/22	Excellent Teacher Award
2023	Certificate ESSCIRC Circuit Insights
2022/21	Academic Merit Award
2021/20	Academic Merit Award

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\*Expected.

## Publications

### Journal Articles

- J1. Domingos, I., Saadi, Z., Sadanandan, K. S., **Henrique A. Pocinho**, Caetano, D. M., Neves, A. I., Craciun, M. F. & Alves, H. Printed graphene electrodes for textile-embedded tribo-electric nanogenerators for biomechanical sensing. *Nano Energy* **115**, 108688. ISSN: 2211-2855 (2023).

### Peer-reviewed Conference Proceedings

- C1. Dias, F. M., **Henrique A. Pocinho**, Rodrigues, G., Fernandes, J. & Caetano, D. M. *Ultra-Compact Low-Power 1st Order Quasi-Passive Sigma-Delta Modulator for Organ-on-Chip Systems* in 2025 IEEE ISCAS (2025).
- C2. Dias, F. M., **Henrique A. Pocinho**, Machete, R., Falcão, A. P., Bento, R. & Caetano, D. M. *Modular Sensor Network for Historic Buildings Structural Health Monitoring* in 2024 IEEE SENSORS (2024), 1–4.

### IEEE Outreach

- O1. **Pocinho, Henrique**, Manuel, C. V. & Delfino, H. IEEE Circuits and Systems Society and IEEE Solid-State Circuits Society Instituto Superior Técnico Joint Student Branch Chapter Update [Chapters]. *IEEE Solid-State Circuits Magazine* **17**, 87–87. ISSN: 1943-0582 (2025).

## Research Scholarships

### ASIC - Advanced Sensor Interfaces and Circuits Group

**PRR-ATE-BM-5**: Assemble printed circuit boards for several purposes. Improve and adapt existing equipment and prototypes for the implementation of a IoT sensor network in the Palace of Monserrate.

### DEEC - Dep. of Electrical and Computer Engineering at Instituto Superior Técnico

**GreenChips-EDU (1018P.06429)**: Wide-band Laboratory Power Amplifier for test and characterization of integrated circuits.

## Reviewer

### Conferences

- 2025            International Conference on Synthesis, Modeling, Analysis and Simulation Methods, and Applications to Circuit Design - SMACD

## Educational Outreach

### Workshops

- Ws1. **Pocinho, Henrique.** *Intro to Eletronics*. Escola Secundária da Amadora. Apr. 2025.
- Ws2. **Pocinho, Henrique.** *PIC1: PCB Design and DIY*. LEEC - IST. May 2025.
- Ws3. **Pocinho, Henrique.** *Eletronics - Arduino*. HackerSchool Student Organization. Jan. 2022.
- Ws4. **Pocinho, Henrique.** *Eletronics - Arduino*. HackerSchool Student Organization. May 2022.
- Ws5. **Pocinho, Henrique.** *Intro to Arduino*. Jornadas de Engenharia Física - IST. Mar. 2022.
- Ws6. **Pocinho, Henrique.** *Maker Starter Pack Workshop - Eletronics*. IST Community. Mar. 2022.
- Ws7. Marques, H. & **Pocinho, Henrique.** *How To Use Scrum and Sprints To Make Your Time More Agile*. IStartLab. Mar. 2021.
- Ws8. **Pocinho, Henrique.** *Arduino Basics*. Colégio Sagrado Coração de Maria. Dec. 2021.

### Teaching

#### Instituto Superior Técnico - Universidade de Lisboa

2024/25	Teaching Assistant, Radio-Frequency Integrated Systems
2023/24	Teaching Assistant, Electronic Circuits
2023/24	Teaching Assistant, Instrumentation and Measurement
2023/24	Teaching Assistant, Electronic Systems
2023/24	Teaching Assistant, Digital Systems
2023/24	Teaching Assistant, Electronics
2022/23	Teaching Assistant, Electronic Circuits
2022/23	Teaching Assistant, Programming
2022/23	Teaching Assistant, Digital Systems
2022/23	Teaching Assistant, Circuit Analysis

### Voluntary Experience

2024 - Now	Student Representative - ECS Specialization, <a href="#">DEEC - IST</a> , Lisbon, Portugal.
2024 - Now	Chapter Chair, <a href="#">IST IEEE Student Branch - CAS &amp; SSCS Chapter</a> , Lisbon, Portugal.
2024	Chapter Founder, <a href="#">IST IEEE Student Branch - CAS &amp; SSCS Chapter</a> , Lisbon, Portugal.
2024	Organizer of the 2 <sup>nd</sup> Ed. of Microelectronics PhD Talks, <a href="#">DEEC - IST</a> , Lisbon, Portugal.
2023 - 2024	Student Representative - ECS Specialization, <a href="#">DEEC - IST</a> , Lisbon, Portugal.
2022	Marketing Coordinator, <a href="#">HackerSchool Student Organization - IST</a> , Lisbon, Portugal.
2021 - 2022	Development Leader, <a href="#">HackerSchool Student Organization - IST</a> , Lisbon, Portugal.
2021 - 2022	Member of the Board, <a href="#">HackerSchool Student Organization - IST</a> , Lisbon, Portugal.
2021	Development Assistant, <a href="#">HackerSchool Student Organization - IST</a> , Lisbon, Portugal.
2020 - 2022	Member, <a href="#">HackerSchool Student Organization - IST</a> , Lisbon, Portugal.

## Projects

### HackerSchool Student Organization - IST

**HS-Inventory:** Platform to manage the inventory of HackerSchool tools and items, as well as allow members to request said tools and items.

**LED Sign for BEST Lisbon:** Fully programmable LED sign developed for BEST Lisbon.

**LED Matrix:** LED matrix connected via Wi-Fi to a website that allowed the user to chose between several light modes, including a scrolling display of text typed on the website.

**MIDI Keyboard:** Adaptation of a vintage electronic keyboard to a MIDI one.

### IEEE IST Student Branch - CAS & SSCS Chapter

**M.E.S.A.:** AI based image recognition system, that counts the numbers of fingers shown to a camera and presents in a screen the multiplication of all fingers shown.

**EH-BLT:** Energy harvesting platform with custom made PCB, circuitry and antenna to take advantage of non-used power in the bluetooth frequency band.

## Other Experience

2024 - 2025	Private Tutor
2022	Teacher, <a href="#">SHARKCODERS</a> , Laranjeiras, Lisboa, Portugal

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Last updated: July 4, 2025