

**Henrique Alves Pocinho**  
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## Education

2024	Erasmus Exchange Student, Electronics Engineering, Politecnico di Milano, Milan, Italy.	
2023-2025*	M.Sc. in Electrical and Computer Engineering - Specialization in Electronic Circuits and Systems, Instituto Superior Técnico, Lisbon, Portugal.	-
2020-2023	B.Sc. 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

2023 - Now	Intern, Test Team, <a href="#">SiliconGate</a> , Lisbon, Portugal
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## Awards & Honors

2023/22	Academic Excellence Award
2023/22	Excellent Teacher Award
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 triboelectric nanogenerators for biomechanical sensing. *Nano Energy* **115**, 108688. ISSN: 2211-2855 (2023).

### Peer-reviewed Conference Proceedings

- C1. 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.

## Research Grants

### 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.

## Presentations

### Workshops

- Ws1. **Pocinho, Henrique**. *Eletronics - Arduino*. HackerSchool Student Organization. Jan. 2022.
- Ws2. **Pocinho, Henrique**. *Eletronics - Arduino*. HackerSchool Student Organization. May 2022.
- Ws3. **Pocinho, Henrique**. *Intro to Arduino*. Jornadas de Engenharia Física - IST. Mar. 2022.
- Ws4. **Pocinho, Henrique**. *Maker Starter Pack Workshop - Eletronics*. IST Community. Mar. 2022.
- Ws5. Marques, H. & **Pocinho, Henrique**. *How To Use Scrum and Sprints To Make Your Time More Agile*. IStartLab. Mar. 2021.
- Ws6. **Pocinho, Henrique**. *Arduino Basics*. Colégio Sagrado Coração de Maria. Dec. 2021.

## Teaching

### Instituto Superior Técnico - Universidade de Lisboa

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| 2024 | Teaching Assistant, Electronic Circuits             |
| 2024 | Teaching Assistant, Instrumentation and Measurement |

2024	Teaching Assistant, Electronic Systems
2023	Teaching Assistant, Digital Systems
2023	Teaching Assistant, Electronics
2023	Teaching Assistant, Electronic Circuits
2023	Teaching Assistant, Programming
2022	Teaching Assistant, Digital Systems
2022	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	Private Tutor
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2022

Teacher, [SHARKCODERS](#), Laranjeiras, Lisboa, Portugal

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Last updated: December 17, 2024