Eduardo Henrique Basilio de Carvalho

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Date of birth: October 25, 2001
Address: Liberdade, Belo Horizonte, Minas Gerais, Brazil

Education

- **Completed:** Technical Degree in Mechatronics — Federal Center for Technological Education (2017–2019)
- **In progress:** Bachelor's in Control and Automation Engineering — Federal University of Minas Gerais (UFMG), 9th semester, expected graduation 2027/1
- **Future plans:** Bachelor's in Computer Engineering; Master's and PhD in Computer Engineering

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Professional Experience

- **Technical Intern** — Betim Química — Maintenance of Industrial Printers (2020/1 to 2021/1)
- **Undergraduate (non-mandatory) Intern** — RSTech — Maintenance of Laboratory Equipment (2021/2)
- **Technical Support** — Eletrogate — Maintenance and development of electronic learning kits (2022/1 to 2024/1)
- **Future plans:** Development of digital accelerators for large-scale computing systems; embedded systems development; development of libraries for machine learning

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Extracurricular

- **Undergraduate Research:** Implementation of a Modbus RTU/TCP converter for use in a teaching laboratory — *completed 2025/1*
- **Undergraduate Research:** Implementation of a teaching testbed for a control laboratory — *ongoing since 2025/1*
- **Undergraduate Research:** Design and implementation of peripheral hardware accelerators for graph-based classification algorithms — *ongoing since 2024/1*
- **Teaching Assistant:** Computer Architecture and Organization (2024/1 to 2025/2)
- **Competition Team:** CEFAST-Drone — Captain of the Electronics Division (2018/1 to 2019/2)
- **Co-organizer** of lectures for IEEE CASS — Minas Gerais (2024)
- Participation in the university's technical and scientific conferences

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Social

- GitHub: https://github.com/eduardo-ufmg
- GitLab: https://gitlab.com/Eduardo-bat
- LinkedIn: https://www.linkedin.com/in/eduardo-carvalho-9233ba37a

Papers and presentations: https://github.com/eduardo-ufmg/papers_and_presentations