LUCAS TUCKER

Software Developer

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📍 Esposende, Portugal

EXPERIENCE

- **C++ Software Engineer** *Apr. 2023 - Present*
  Bosch Car Multimedia Portugal S.A. ⬈ Braga

  – Developer for the ESCRYPT CycurSoc ⬈ project, an embedded cybersecurity software solution for contemporary and future System on Chip based automotive ECUs.
  – Developed ASPICE compliant software across multiple project features and wrote required technical documentation.
  – Ensured the accomplishment of code coverage metrics by means of unit and qualification tests and participated in peer reviews in order to assure code quality.
  – Contributed efforts along with teams spanning 7 countries worldwide to deliver high quality software to several large companies in the automotive sector.

- **Embedded Systems Engineer** *Feb. 2022 - Feb. 2023*
  Embedded Systems Solutions Lda. ⬈ Esposende

  – Developed an in-house universal simulator to assert the status and analyse the behaviour of refurbished refrigeration controllers by creating and executing tests that replicated real world conditions.
  – Participated in the design and was responsible for the prototyping of PCBs whose purpose was to regulate adequate power and exercise every functionality of the controllers under test.
  – Programmed C software so as to create the test suites that the controllers would be subject to.
  – Aided in the electronic repair of controllers for notable clients in the refrigeration industry.

- **Electrical Engineering Intern** *Mar. 2021 - Aug. 2021*
  Synopsys, Inc. ⬈ Porto

  – Developed a regression testing infrastructure for a team with upwards of 10 elements as part of my Master's thesis.
  – Programmed JavaScript and Python software as part of the devised solution's front end and back end, respectively.
  – Worked with Synopsys's VC Execution Manager ⬈ tool as the central element of the project.

EDUCATION

- **MSc in Electrical and Computer Engineering - Telecommunications** ⬈ *2019-2021*
  Polytechnic of Porto - School of Engineering (ISEP) Grade: 80%

- **BSc in Electrical and Computer Engineering** ⬈ *2016-2019*
  Polytechnic of Porto - School of Engineering (ISEP) Grade: 75%

TECHNICAL SKILLS

- **Programming**: C++17, C, Java, Python

- **Tools**: BitBucket, CMake, Confluence, Git, GitHub, Jenkins, Jira, LaTeX, VS Code, SonarQube

- **Agile methodologies**: Scrum

LANGUAGE PROFICIENCY

- **English**: Native

- **Portuguese**: Native