



## Diogo Costa Correia

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Kyoto

in/digas99

digas99

Portuguese, born in 29 May 1999

### Work Experience

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July 2023 – December 2025

#### Student Researcher

Instituto de Telecomunicações  
Aveiro, Portugal

- Further development of UAVs On Board Units (OBUs)
- Flight and maintenance of drones (dev kits)
- Further development and maintenance of a UAVs platform to monitor and launch drone missions

*Unmanned Aerial Vehicle (UAV) - Docker - C++ - Vue.js*

### Volunteering

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January 2023 – October 2023

#### Image Coordinator

Encontro Nacional de Estudantes de Informática (ENEI)  
Aveiro, Portugal

- Responsible for creating and supervise the image and visuals for the event

*Adobe Illustrator - Adobe Photoshop*

January 2020 – July 2024

#### Member of Image Sector

Núcleo de Estudantes de Engenharia de Computadores e Telemática  
Aveiro, Portugal

- Responsible for creating visuals to promote events and workshops

*Adobe Photoshop*

January 2019 – December  
2019

#### Member of Cultural Sector

Núcleo de Estudantes de Engenharia de Computadores e Telemática  
Aveiro, Portugal

- Helped organizing events for students entertainment

### Education

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2017 – 2025

#### MSc in Computers and Telematics Engineering

Departamento de Eletrónica, Telecomunicações e Informática, Universidade de Aveiro

- Computer Systems; Internet of Things (IoT); Software Development; Networking Protocols

### Publications

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January 2026

#### Hybrid Collision Avoidance Framework for UAV Swarm Operations for PPDR Missions

**Diogo Correia**, Joaquim Ramos, Pedro Rito, Duarte Raposo, Susana Sargento  
*INFOCOM NetRobiCS 2026 (accepted, not published yet)*

- Design and validation of cooperative collision-avoidance mechanisms for multi-UAV systems, combining GNSS-based reactive and proactive strategies with mesh-based telemetry exchange to ensure safe navigation during disaster response missions.

Publication Reference

December 2025

## **A Multi-UAV Platform with 5G and NTN Backhaul for PPDR Scenarios**

**Diogo Correia**, João Su, Rúben Gomes, Pedro Valente, Pedro Rito, Duarte Raposo, Susana Sargento

*IEEE WCNC 2026 (accepted, not published yet)*

- Design and experimental validation of a multi-UAV communication platform for disaster scenarios, integrating 5G mobile base stations, IEEE 802.11s mesh networking, and satellite backhaul to provide resilient connectivity, real-time video streaming, and autonomous target tracking.

Publication Reference

### Side Projects

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August 2022 – June 2023

#### **PACO-UA API**

API for Portal Académico Online - Universidade de Aveiro using Puppeteer to, through a headless browser, log in and scrape the page Secretaria Virtual from paco.ua.pt. The results are routed with Express.js.

- Setup of an API from scratch in Express.js
- Web Scrapping

Github

*Javascript - Express.js - Puppeteer*

March 2021 – present

#### **Browser Extension - Wanikani Kanji Highlighter**

Browser extension for kanji highlighting on any webpage, matching kanji learned with the WaniKani application.

- Setup of entire browser extension from scratch
- Display data from existing API

Github • Chrome Web Store

*Javascript - CSS - HTML - IndexedDB*

### Skills

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Programming C++, Java, Python, JavaScript, Bash

Systems & Platforms Linux, Git, Docker, ROS 2, SQL, UAV Onboard Units (OBUs)

Web & APIs Django, Vue.js, Express.js, HTML, CSS, IndexedDB

### Other Information

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Languages **Portuguese** – native  
**English** – fluent

Interests Languages, history and culture