

# Antonio Mazilu

## SOFTWARE PROGRAMMER

My name is Antonio Mazilu, and I am currently studying at the University of the Peloponnese, Department of Informatics and Telecommunications.

I am passionate on creating innovative technological solutions. I have a strong background in programming and developing on UAV technology in different use cases such as Autonomous Swarm Algorithms, Infrastructure Inspection, Agriculture, Aerial Data Analysis, etc. My expertise extends across several areas, including drone piloting, post-quantum cryptography, Apps and chaincodes developed on Hyperledger Fabric.

I am a dedicated and results-oriented programmer, with the ability to deliver high-quality solutions and products. I am confident in my skills and eager to take on new challenges that push the boundaries of technology.

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**in** [linkedin.com/in/antonio-mazilu/](https://www.linkedin.com/in/antonio-mazilu/)

## LANGUAGES

Greek  
English

Romanian

## SKILLS

Programming Languages: Java, Python, C#, C, Shell  
Technologies: Docker, Prometheus, Grafana, OpenVpn, Electron Framework, Apache, MQTT Broker  
UAV Systems: Expertise in Drone Piloting, DroneKit, MAVSDK, Pixhawk4, Mavlink and Autonomous Swarm Algorithms

Cyber Security: Post-Quantum Cryptography, IoT Security, Web security fundamentals, Offensive and defensive security.

Web Development: HTML, CSS/BOOTSTRAP 5, PHP, JavaScript

Blockchain: Specialized in Hyperledger Fabric chaincode development

Embedded Computers: Raspberry PI, Arduino  
Cloud Platforms: Microsoft Azure and AWS  
Database Management: SQL, MongoDB  
UNIX Based OS

## EXPERIENCE

## Software Developer Intern

NCSR DEMOKRITOS Feb 2024 - Nov 2024

I am actively involved in the development of advanced technologies, with a particular focus on UAV systems, and cybersecurity. My work involves creating and refining UAV control systems, including autonomous swarm algorithms and data capture mechanisms, aimed at enhancing real-time decision-making capabilities in various sectors such as agriculture and surveillance.

## Projects:

- Alnception (AI Framework for Improving Cyber Defence Operations)

## TOP 3 PROJECTS

## Erasmus App

Individual

A web application for Erasmus students, utilizing HTML, CSS, and PHP, with XAMPP for database management.

### **Tic-Tac-Toe**

Individual

AI that plays Tic-Tac-Toe, employing algorithms like Alpha-Beta pruning, Monte Carlo search, and limited depth search.

### **PDS**

Individual

Developing a police database system with interfaces and implementations in C#.

## **EDUCATION**

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### **B.Sc. Informatics and Telecommunications**

University of the Peloponnese *Oct 2020 - Present*

### **High School**

General High School of Oinofyta *Sep 2017 - Jun 2020*

GPA 18/20

## **CERTIFICATION**

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### **FORESIGHT: "Advanced cyber-security simulation platform for preparedness training in aviation, power-grid, and naval environments"**

*2023-03-23*

### **BUSINESS PLANNING AND DOWNLOADING DECISIONS**

*2024-04-17*

### **PACET 2022: "Panhellenic Conference on Electronics and Telecommunications"**

*2022-12-13*

## **PUBLICATIONS**

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### **Blockchain meets Internet of Things (IoT) forensics: A unified framework for IoT ecosystems**

Authors: Sotirios Brotsis and Konstantinos P. Grammatikakis and Dimitrios Kavallieros and Antonio I. Mazilu and Nicholas Kolokotronis and Konstantinos Limniotis and Costas Vassilakis

Year: 2023

DOI: <https://doi.org/10.1016/j.iot.2023.100968>

### **UAV Swarm Management Platform for Autonomous Area and Infrastructure Inspection**

Authors: Michael C. Batistatos and Antonio I. Mazilu and Michail-Alexandros Kourtis and George K. Xilouris and Andreas Oikonomakis and Dimitris Santorinaios and Panagiotis E. Leonis and Pavlos A. Sygrimis and Konstantinos G. Ntouros and Ioannis D. Moscholios and Nikos C. Sagias and Anastasios Kourtis

Year: 2024

DOI: <https://doi.org/10.1109/PACET60398.2024.10497082>

## **KNOWLEDGE**

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Administrative Skills  
Skilled in preparing  
professional documents using  
LATEX

Strong communication skills  
with proven ability to  
collaborate in team  
environments  
Microsoft Office Suite (Word,  
Excel, PowerPoint)

## REFERRAL

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### **Github**

<https://github.com/AntonioMazilu>

### **My Coding Projects**

<https://github.com/AntonioMazilu/Coding-Projects>

### **Orcid**

<https://orcid.org/0009-0006-2768-4934>

### **ResearchGate**

<https://www.researchgate.net/profile/Antonio-Mazilu>

### **My UAV Team**

<https://www.linkedin.com/company/aces-high-team>

### **Google Scholar**

<https://scholar.google.com/citations?user=6t2EqxkAAAAJ&hl=en&oi=ao>

## REFERENCES

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Available upon request.