

Thanasis Georgiou

ELECTRONIC ENGINEER STUDENT

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Education

Electronic Engineer

Athens, Greece

UNIVERSITY OF WEST ATTICA, FACULTY OF ENGINEERING, DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

September 2014 - October 2020

Communications and Networks Cycle

Skills

Programming Python, Git, MATLAB, LaTeX, SQL, Javascript/Typescript, C, C++, Java, C#, Julia

Linux General Administration, Ceph, GlusterFS, Docker, Gitlab CI

Processing MPI, OpenMP, CUDA

Web Typescript, node.js, React, HTML5

Embedded AVR, STM32, PSoC, Raspberry Pi, Arduino

Awards

National Observatory of Athens

Athens, Greece

SCHOLARSHIP

November 2019 - August 2020

- Implementation of local HPC cluster for weather and dust forecasting, as well as satellite dataset processing
- Design of data center for the upcoming climate change observatory of Antikythera

National Observatory of Athens

Athens, Greece

SCHOLARSHIP

December 2018 - November 2019

- Processing of satellite remote sensing datasets
- Technical work regarding the orchestration of PRACE Projects SoDUST, ReMOD and RAPID, data handling, analysis and archival

Submissions in Conference Proceedings

Scattering database of oriented dust particles with realistic shapes and sizes

APOLO, U. of Lille, France

POSTER

November 2019

Alexandra Tsekeri, Josef Gasteiger, Alexander Konoshonkin, Natalia Kustova, Thanasis Georgiou, and Vassilis Amiridis

Polarization Lidar for Detecting Dust Orientation

ILRC29, Hefei, Anhui, China

CONFERENCE PAPER

June, 2019

Alexandra Tsekeri, Volker Freudenthaler, George Doxastakis, Josef Gasteiger, Alexandros Louridas, George Georgoussis, Ioannis Biniotoglou, Thanasis Georgiou, Joseph Ullanowski, and Vassilis Amiridis

LoRAthens: Democratizing Network Infrastructure for Metropolitan Early Warning Systems

Safe Athens 2017, Athens

POSTER

28-30 June, 2017

G. Hloupis, G. Doxastakis and A. Georgiou

Other Projects

ESA-ASKOS

National Observatory of Athens

RESEARCH PROGRAM

May 2020 - Present

- Technical support in the planning of the European Space Agency Tropical Campaign "ASKOS" (Summer 2021)
- Development of data repository and website
- <https://askos.space.noa.gr/>

D-TECT

RESEARCH PROGRAM - ERC GRANT

National Observatory of Athens

March 2018 - Present

- Support of research team in systems administration and data analysis
- <http://d-tect.space.noa.gr>

hackAir - Collective Awareness for Air Quality

RESEARCH PROGRAM

TEI of Athens

June 2016 - May 2018

- Design and implementation of a low-cost embedded platform for Air Quality measurements
- <http://www.hackair.eu/>

Support project for the TEI of Athens

WEB PLATFORM DEVELOPMENT

TEI of Athens

April 2017 - June 2017

- Development of a content management system for news and announcements using Bluetooth Low Energy Beacons.

Web platform for clinic appointment management

WEB PLATFORM DEVELOPMENT

TEI of Athens

January 2016

- 4 years of continuous use by 20 daily users with 99.9% uptime