Dimitrios Marinos Papalampidis

Introduction

Dimitrios Marinos Papalampidis is a scholarship student in the 10th grade (A' Lyceum) at Anatolia College. Originally from Orestiada, Evros, he demonstrated significant academic achievements and intellectual abilities at an early age, while also cultivating a wide range of interests. With a strong dedication to learning, languages, and technology, he has distinguished himself in many areas, such as English proficiency, mathematics competitions, and amateur radio. His curiosity and initiative are also reflected in his personal projects, including software development as well as the construction of telescopes and antennas.

Personal info

- Full Legal Name: Dimitrios Marinos Papalampidis
- Date of birth: March 5th 2010
- Place of birth: Alexandroupolis, Greece
- Home town: Orestiada, Greece
- Nationality/Citizenship: Greek
- Current Occupation: 10th grade Student – 1st High school of Anatolia College, Thessaloniki

Education

- 09/2014 – 06/2016: Attendance at the 6th Kindergarten of Orestiada
- 09/2016 – 06/2022: Attendance at the 2nd Primary School of Orestiada (Graduated with Distinction: 10/10)
- 09/2022 – 06/2025: Attendance at the 3rd Junior High of Orestiada (Graduated with Distinction: 19 & 12/15 /20)
- 09/2025 – Present: Attending the 10th grade (A' Lyceum) with scholarship at the 1st General Lyceum of Anatolia College, Thessaloniki

Additional Qualifications

English – Excellent level (writing, reading, speaking)

Language Certifications:

- **"Certificate of Proficiency in English", Cambridge English Level 3 Certificate in ESOL International (Proficiency), (C2),** Date of examination: 18 May 2024 (age 14)
- **"NOCN Level 3 Certificate in ESOL International (C2)",** Award day: 22/01/2024 (age 13), Grade: Distinction.

French – Good level

- Attendance of private French language lessons at a language institute in Orestiada from September 2020 to the present, with the goal of obtaining a language certification in December 2026.

Amateur Radio

- **Amateur Radio Operator Entry-Level Licence & Certificate** (granted after examinations according to Greek legislation). Examination date: 8 April 2025, Directorate of Transportation and Communications, Orestiada. Entry level license, not HAREC.

Music

- Attendance at the Municipal Conservatory of Orestiada, **Electric Guitar Department**, during the academic years 2019-2020, 2020-2021, 2021-2022, and 2022-2023, with completion of **Lower Music theory studies**.

Other Activities & Participations

- Member of **MENSA** Greece since 2024, based on the supervised FRT-A test results administered by the National Supervisor Psychologist (NSP) certified by Mensa International: **IQ score 131**
- Distinctions in competitions of the Hellenic Mathematical Society (EME):
  - ✔ 14th Mathematics Competition "**Hypatia**", 1 November 2022, 7th Grade (A' Gymnasium)

- ✔ Mathematical Competition "**Thales**", 4 November 2023, 8th Grade
- ✔ Mathematical Competition "**Thales**", 11 November 2024, 9th Grade

- Academic Excellence Awards:
  - ✔ School Year 2022-2023, 5th Grade, General Grade: **19 & 7/15**
  - ✔ School Year 2023-2024, 6th Grade, General Grade: **19 & 9/15**
  - ✔ School Year 2024-2025, 7th Grade, General Grade: **19 & 12/15**

- Participation:
  - ✔ March 2024: Presentation and briefing for students of the Second Chance School of Orestiada on the topic *"**Telescopes and the Observation of Stars with Telescopes**"*, as part of the ARISS program – Contact with the I.S.S..
  - ✔ November 2024: Participation in the **9th European Student Conference** held in Munich, Germany, on the topic *"The Germany of the Greeks – The Greece of the Germans. Classical Greece and its Influence on German-Speaking Culture."*
  - ✔ June 2025: Participation in **CTY Greece**, Johns Hopkins Center for Talented Youth, Anatolia College, with successful completion of the course *"Introduction to Computer Science."*
  - ✔ October 2025 – present: Active member of the "*Cansatelation"* CanSat team, as head satellite engineer, for the ESA CanSat competition.
  - ✔ October 2025: Participation in a CERN guided tour, on a school trip with Anatolia College STEM Center.
  - ✔ November 2025: Participation in the **9th European Student Conference** held in Vienna, Austria, on the topic *"From the Europe of the past to the Europe of our future.".*
  - ✔ December 2025 – present: Participation in the "*RC Aeronautics"* club in Anatolia College.

Projects – Creations

- **Radio Technology & Electronics:** Construction of a DIY VHF Yagi-Uda antenna using a steel rod, sections of metallic measuring tape, electrical tape, signal cable, and plastic parts designed in Autodesk Fusion 360, sliced in UltiMaker Cura, and 3D printed with ABS filament. Assembly completed with a soldering iron using solder with flux.
- **Power Supply System for Amateur Radio Transceiver:** Built using a photovoltaic panel, controller, and a 12V UPS battery.
- **Software Development:** *HardLife RP* FiveM Server.
- **Web Design – Development – Hosting:** Personal websites (papalampidis.gr, dimitris.papalampidis.gr). Cansat project website for "*Cansatelation"* team (cansatelation.tech).
- **Telescope Construction:** f/8 reflecting telescope (114/900mm) with mount. Parts were designed and parametrized in Autodesk Fusion 360, sliced in UltiMaker Cura, and 3D printed with ABS filament. Assembly integrated into three one-meter steel rods with metal screws and nuts, painted with light-absorbing/anti-reflective matte black paint, and fitted with mirror and secondary using spring-loaded homemade adjustment levers. Mount: Dobsonian type, built from the same rods joined with 3D printed parts. Planned upgrades: replacing spherical mirror with parabolic for greater clarity, upgrading the lazy Susan bearing with a higher-quality, tighter-tolerance version, and adding stepper motors on both axes with Arduino-based remote control through a complete redesign.
- **Tesla Coil Construction:** Assembly of a Tesla coil using commercially available materials and electronic components, soldered with soldering iron and flux. Experimentation with different DC voltages and powering LED and fluorescent lamps wirelessly.
- **School Video Production:** Drone shooting, editing, effects, and post-production with professional software.
- **YouTube Channel Creation:** Focused on providing advice on IT-related topics.
- **Electric Guitar Upgrade – Squier Fat-Strat:** Replacement of factory pickups with Alnico pickups, potentiometers, pickup selector, tuning machines, tremolo system and springs, capacitor, input jack, and strap locks. Shielded the entire interior with adhesive copper foil and smoothed the fretboard.

- **Guitar Amplifier Upgrade – Fender Frontman 15R:** Replacement of factory speaker with Celestion Eight 15, cardboard reverb box with dual-spring metal reverb, and connectors with gold-plated ones.
- **PC Assembly/Upgrading:** Market research, component selection, compatibility checks, use of adapters, tailored to user needs and budget.
- **Electric Scooter Upgrade – UrbanGlide 10":** Software modification to change motor power management, frame reinforcement through aluminum welding, replacement of tires with larger ones, and design/3D printing of plastic mounts for accessory installation.
- **Ham Radio – ChatRF repeater setup:** Setup Fully functioning ChatRF repeater (from github) for Amateur Radio purposes. It is a program that integrates AI chat into analog radio communications. My setup was as simple as possible with the python program running on my laptop with an RTL SDR (software-defined-radio) as input and a handheld radio transceiver as output. Testing showed that it covered a radius of ~10km (very good for its conditions).

Interests, Skills and Hobbies

- Amateur Radio and Radio Communication
- Satellite Communication
- 3D Printing & CAD modelling (Fusion 360)
- Programming – Software Development (Lua, Python, C++, C#, Java)
- Image & Video Editing using Professional Software
- Creating Powerpoint presentations
- Drone operation for cinematic videography and imagery
- Technology, Electronics and Microelectronics
- PC building – Hardware tinkering
- Astronomy & Space
- Mechanical Engineering – Cars/Motorcycles & Motorsport
- On-line Research
- Use of AI tools – Perplexity Pro – Chat GPT - RTC
- Tennis
- Electric Guitar