CHARALAMPOS ASTRINAKIS

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PERSONAL SUMMARY

A detail-oriented physics graduate with hands-on experience in 3D modeling, prototyping, and innovative design solutions. Passionate about merging technical expertise with creativity to develop functional and aesthetically compelling designs, aiming to contribute to cutting-edge industrial design projects and advance sustainable, user-centered innovations.

EDUCATION

08/2017 – 01/2024 *Bachelor's degree in Physics department*
University Of Crete, Greece
Relevant Courses: Utilization of Research Results and Entrepreneurship, Electromagnetism, Classic mechanics, Advanced Physics Laboratory
Thesis: Optoacoustic interferometric characterization system (OPTICS) for the evaluation of fuel quality through speed of sound measurements

PROFESSIONAL EXPERIENCE

06/2023 – 09/2023 *Intern*
Foundation for Research & Technology – Hellas (FORTH)
- Became proficient in operating and utilizing an innovative photoacoustic spectrometer
- Analyzing all fuel measurements in the experimental setup, ensuring data accuracy and integrity.

10/2024 – present *Research Assistant*
Foundation for Research & Technology – Hellas (FORTH)
- Developed advanced 3D models and multi-layered prototypes for complex tissue-mimicking phantoms, utilizing cutting-edge 3D printing technologies to optimize design accuracy and functionality.

06/2022 – present *Self employed*
Design Crafts Company
- Designed and handcrafted unique, functional furniture pieces, primarily working with wood, while incorporating other materials to achieve innovative and versatile designs.

PROJECTS

07/2019 – 08/2019 *Robotics Innovation: Volunteering in Cairo, AIESEC*
- Contributed to innovative advancements in the field of robotics, demonstrating problem-solving abilities and creativity..

04/2021 – 05/2021 *Imaging multicellular specimens with real-time optimized tiling light-sheet selective plane illumination microscopy, Special bioimaging techniques.*
- Utilized tiling light-sheet selective plane illumination microscopy (SPIM)
- Captured real-time images of complex multicellular specimens

PUBLICATIONS

George J. Tserevelakis, Charalampos Astrinakis, Giannis Zacharakis “Optoacoustic interferometric characterization system (OPTICS) for the evaluation of fuel quality through speed of sound measurements.” *Journal of Ultrasonics* (2024)
Doi: https://doi.org/10.1016/j.ultras.2024.107291

LANGUAGE & ADDITIONAL SKILLS

- English - B2
- Python, C, Matlab, OriginPro
- Microsoft Word, Excel
- Self-organisation, discipline and adaptability
- Effective time management