

Curriculum Vitae



Vasileios Theofylaktopoulos
(25y/o, Greek)

Master's of Science in Engineering
In Physics and Nanotechnology
[Technical University of
Denmark](#)(DTU)

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My main interest lies in finding applications of **nano/microfabrication** in **biology** in order to study and improve **human health**.

Technical skills

Extensive experience in:

- Cleanroom Processes: **Soft lithography** (fabricating SU-8 molds to produce PDMS devices).
- Working in a cell laboratory, **culturing and measuring** the electrical activity of **neurons**.
- **Rapid prototyping**. Computer aided design of devices for 3d printing, milling or laser cutting.
- **Scanning electron imaging** and characterization.
- **Photoluminescence** characterization of semiconductors.

Moderate experience in:

- Matlab
- Modelling in Comsol (Mechanics and microfluidics).
- Cathodoluminescence characterization of semiconductors.

Short experience in:

- E-beam lithography
- Nanoimprint
- Electrochemical measurements
- Atomic force microscopy
- Soldering, basic electrical circuit design

Communication & Organizational skills

- Scout leader 2010-2015 for a group of about 20-25 kids (11-15years old).
- Science communication competition, [Famelab](#) in 2012 and 2013.
- Science installations.

Honors and awards

- Graduated from bachelor's as top of the class, grade 8.28/10.
 - Award for academic excellence for the first semester of studies (2010-2011)
 - Award for 3rd place on Famelab Greece (2012)
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Education

Master's of Science in Engineering, Physics and Nanotechnology from DTU September 2015-June 2017

Master Thesis

IBM 02-07/2017 Characterization of III-V nanowires for solar cell applications
Research
Zurich

Master Projects

DTU 01/2017 Fabricating 3D carbon microelectrodes. Investigating different fabrication parameters.
DTU 09-12/2016 Imaging palladium nanoparticles in bacteria using a SEM.
DTU 01-09/2016 Designing and fabricating an impedance sensor for creatinine based on molecularly imprinted molecules.

Bachelor's in Biomedical Engineering from the [Technological Educational Institute\(TEI\) of Athens](#) September 2010-December 2014

Bachelor thesis

ETHZ 03-11/2014 Designing and fabricating a thin PDMS membrane with holes for positioning neurons. Confining neurons with walls. Recording their electrical activity with multi electrode arrays.

Bachelor Project

TEI 2 months Studying the heating of magnetic nanoparticles in an alternating magnetic field using an infrared camera.

A short **description of the projects** can be found here: www.theovasilis.wordpress.com

