

# CURRICULUM VITAE

## 1. PERSONAL DATA

**Surname:** CRACIUN  
**First name:** Alexandru  
**Date/Place of Birth:** 19 April 1993 / Craiova, Romania  
**Nationality:** Romanian  
**Gender:** Male  
**Languages:** English (medium level)  
Romanian (native language)



**Office:** National Institute for Laser, Plasma and Radiation Physics (INFLPR)  
Laboratory of Solid-State Quantum Electronics  
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## 2. EDUCATION AND TRAINING

### **PhD in Physics Student**

Dates / Institution: October 2017 - present / Faculty of Physics, University of Bucharest  
Program name: Optics, Spectroscopy, Plasma and Lasers

### **Master Degree in Physics**

Dates / Institution: October 2015 - July 2017 / Faculty of Physics, University of Bucharest  
Program name: Physics of Advanced Materials and Nanostructures  
Title of the Thesis: Theoretical Studies on Generation of Terahertz Radiation by Optical Rectification in Lithium Niobate

### **Diploma in Physics**

Dates / Institution: October 2012 - July 2015 / Faculty of Physics, University of Bucharest  
Program name: Physics  
Title of the Thesis: Terahertz Time-Domain Spectroscopy

## 3. WORK EXPERIENCE

### **National Institute for Laser, Plasma and Radiation Physics**

Laboratory of Solid-State Quantum Electronics  
409 Atomistilor Str., P.O. BOX MG-36, Magurele 077125, Ilfov, Romania  
Period / Position: 02/2016 - present      Scientific Research Assistant

#### **4. RESEARCH INTERESTS**

- THz generation and THz spectroscopy
- High power femto-second lasers
- Spatio-temporal couplings in ultrashort laser pulses
- Ultrafast nonlinear optics
- Wave propagation modeling

#### **5. COMPUTER SKILLS AND COMPETENCES**

<b>Operating systems:</b>	Windows, Linux
<b>Data analysis and representation:</b>	Mathematica, Python, Octave, Gnuplot
<b>Text editing:</b>	MS Word, LaTeX
<b>Presentations:</b>	MS Power Point, Mathematica
<b>Programming:</b>	C/C++
<b>Ray-Tracing and Optical Design:</b>	Optica, Zemax