

PERSONAL INFORMATION **Jann Eike KRUSE**

WORK EXPERIENCE

2019–Present **Founder, Head of R&D Hardware**

CommonsLab Koin.S.Ep.
Ethnikis Antistaseos 73, 71306 Heraklion (Greece)

- Design and production of electronics and automations for customized research equipment
- Customer relations for Key Accounts in target group Academia
- Operation of the PCB manufacturing activities
- Programming of embedded devices, micro-controllers, system-on-chip and single-board computers
- General management (member of the Board of Directors)

2012–2019 **Researcher**

University of Crete, Microelectronics Research Group
Voutes Campus, 71001 Heraklion (Greece)

- Molecular beam epitaxy of III-Nitride nanowires and high-electron-mobility transistor layers
- Operation and maintenance of the atomic-force microscope

2006–2012 **Researcher**

Foundation for Research and Technology – Hellas,
Institute of Electronic Structure and Laser
Nikolaou Plastira 100, 70013 Heraklion (Greece)

- Completion of an optical laboratory for generation and characterization of attosecond laser pulses
- Setting up a polarization spectroscopy and a coherent anti-Stokes Raman spectroscopy system

2000–2005 **Student assistant**

University of Hamburg
Institute of Applied Physics
Jungiusstraße 9, 20355 Hamburg (Germany)

- Assistance in setting up a laboratory for magnetic-force microscopy
- Preparation of a probe for a top-loading He³ cryostat

EDUCATION AND TRAINING

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- 2006–2010 **PhD** EQF level 8
University of Crete
Voutes Campus, 71001 Heraklion (Greece)
■ Generation and characterization of attosecond laser pulses and their interaction with gases
- 1997–2005 **Diplom Physiker** EQF level 7
University of Hamburg
Institute of Applied Physics
Jungiusstraße 9, 20355 Hamburg (Germany)
■ Semiconductor nano-structures
■ Magnetic alloys
■ Electronics
■ Biophysics
- 1987–1996 **Abitur** EQF level 4
Gymnasium Buckhorn
Im Regestall 25, 22359 Hamburg (Germany)
Focus subjects:
■ Physics
■ Mathematics
■ Politics
■ English

PERSONAL SKILLS

Mother tongue German

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Greek	B2	B2	B1	B1	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills

- Project management
- Human resources

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

- High level of experience in desktop manufacturing and rapid prototyping: 3D-Printing, CNC machining, PCB manufacturing
- Good command of applications: KiCAD Electronics Design Suite, LibreOffice, GNU Image Manipulation Program, Inkscape Vector Graphics
- Good command of languages: Python, C/C++, OpenSCAD, LaTeX
- Good knowledge on IP networks, GNU/Linux system administration, Virtualisation
- Experience in web server administration: Apache, Nginx, PostgreSQL/MySQL/MariaDB, PHP

Driving licence AM, B1, B, BE, C1

ADDITIONAL INFORMATION

- Publications**
- Physical Review B 72:224436
 - Applied Physics Letters 89:052106
 - Optics Letters B 34:1732
 - Physical Review A 79:061405
 - Applied Physics B 97:505
 - Physical Review Letters 105:043902
 - Physical Review A vol. 82, p. 021402
 - Physical Review A vol. 82, p. 033438
 - Progress in Ultrafast Intense Laser Science VII, chapter 8
- Conferences**
- 2005 – DPG Berlin, Germany (Poster session)
 - 2009 – UFNO Burgas, (Talk)
 - 2009 – ISUILS Elounda (Poster session)
 - 2010 – ATTOFEL Lund, Sweden (Talk)
 - 2013 – ICFN Corfu, Greece (Talk)
 - 2014 – IWN Wroclaw, Poland (Poster session)
 - 2014 – MBE Flagstaff, Arizona, USA (Poster session)
 - 2014 – NANO St. Petersburg, Russia (Talk)
- Memberships** Fellow of the Free Software Foundation Europe (Fellow 1901)
- Courses** Successful completion of “Introduction to Power Electronics” by Dr. Robert Erickson, University of Colorado, Boulder (75.9% on Coursera.org)
- Honours and awards** SPIE Award First Place Student Presentation “Conference on Ultra-Fast and Nonlinear Optics” 2009
- Presentations**
- “Benefits of Open Source and Open Design” at the *Technical University of Crete*
 - “Internet of Things – Freedom and Security” at the *University of Crete (FOSSCOMM)*
 - “Introduction to 3D-Printing” at the *2nd Laboratory Center of Heraklion*
 - “Introduction to CNC” at the *CommonsLab*