Bogdan Spiridon MEng MRes PhD

PERSONAL

Full name	Bogdan Florin Spiridon	**LinkedIn**	https://www.linkedin.com/in/bspiridon
Nationality	Romanian (birth), British (naturalisation)	**Mobile**	(+44) 07956 513 315
Address	ideaSpace, Houser Forum, 3 Charles Babbage Road, Cambridge CB3 0GT	**E-mail**	bogdan.spiridon@camgile.com
		Website	https://www.camgile.com

ABOUT ME

Electronics engineer and scientist with an all-round view on value creation – from problem definition, through science, innovation, engineering and manufacturing, to implementation and exploitation. I have successfully integrated in corporate, start-up, academic, and membership communities, contributing technical and non-technical skills towards their success. My interests are multi- and inter-disciplinary, centred on technology but reaching beyond it into sustainable business creation, organisational and team management, business development, and community forming. While I focus on long-term goals for sustainable personal and organisational growth, I show a proactive attitude for exploiting immediate opportunities and tackling problems in their infancy, taking calculated risks and accepting the inherent failure probability.

FORMAL EDUCATION

2016 – 2020 University of Cambridge, UK PhD in Gallium Nitride (GaN) Sensors

My doctoral work was placed at the boundary of Materials Science and Electrical Engineering, researching the design, fabrication and integration of GaN sensors. The project included aspects of Group III-N semiconductors' theoretical study, design, numerical simulation, and characterisation. The project involved the use of finite element analysis (COMSOL Multiphysics), TCAD simulation (Synopsys Sentaurus), IC layout (Cadence Virtuoso), scripting (MATLAB, Python), microscopy (AFM, SEM, EDS), material processing (EC and UV-PEC etching), material characterisation (profilometry, nanoindentation, 3-omega), and electrical characterisation (IV, IVT, TLM, IdVd, IdVg, Hg-CV, Hall).

2015 – 2016 University of Cambridge, UK MRes Sensor Technologies and Applications

The MRes degree was an opportunity to refine my knowledge of sensors and their applications, and to further develop my transferrable skills such as effective communication and work practices in diverse teams. The course included a Team Challenge where an Optical Projection Tomography system was designed and built in 10 weeks, where I coordinated the data acquisition, software and user-interface development.

2010 – 2015 University of Edinburgh, UK MEng Electronics with Bioelectronics (1st Class)

A valuable combination of theory and practical work in electronics, electrical engineering, and adjacent fields (e.g. biology, project management, design for manufacturability). The five-year course covered these subjects comprehensively and included an industrial placement for the final MEng project.

EXPERIENCE (continued overleaf)

Apr. 2020 – present Senior Consultant and Director at Cambridge Agile Technology Ltd

The company, trading as Camgile, has operations in software development, electronics, Agile methodology and management consulting. I enhance the company offering with my technical, scientific, strategy, and certified scrum master services, and support the business development, planning and regulatory aspects for achieving a sustainable and organic growth. Past engagements include projects in the specialist semiconductors (design and manufacturing) and global utilities sectors for clients of medium and large size, spanning between 6 months and 1.5 years.

Oct. 2018 – Oct. 2021 Committee President (2018-2019) and Chairperson (2019-2020) of the Cambridge University Technology and Enterprise Club (CUTEC)

My work included refining the strategy of the club to adapt to the evolving needs of our stakeholders and ensuring the cultural, reputational, and financial health of the society. During this period, the popularity of CUTEC grew among the academic community, its visibility increased with external partners, and the Board of Advisors was revived for staying in sync with the stakeholders. The CUTEC activities include: Coffee Club (entrepreneurial networking), CUTalks (podcast discussing the entrepreneurial journey), and the Technology Ventures Conference.

Oct. 2016 – present Teaching Assistant and Supervisor at University of Cambridge

I worked as a Teaching Assistant for Electrical Engineering (2016-2017) and my duties included managing laboratory sessions, training and supervising the laboratory demonstrators, and marking academic reports.

Since 2017, I supervised over 50 students for the third-year Analogue (3B1) and Digital (3B2) Electronics courses and for the second-year Electrical Engineering Tripos Paper (2P5). Finally, I acted as daily supervisor for two CDT MRes students, for their mini research projects in Materials Science.

Oct. 2015 – Sep. 2020 **Member of the Centre for Doctoral Training in Sensor Technologies and Applications (Sensors CDT) and of Robinson College**

I joined the Sensors CDT as part of a diverse and international cohort of 15 students from varied disciplines, with the aim of performing interdisciplinary research to advance the field of sensors, one of the key research directions of the University. The College membership exposed me to a diverse, multicultural, and dynamic environment, with colleagues from across the world.

July 2015 – Sep. 2015 **Electronics Engineer at Asymptote Ltd (Cambridge, UK)**

I contributed to the VIA Thaw range of bio-medical dry thawing units by developing prototypes, characterising thermal processes, and identifying suitable components and suppliers. Despite integrating well within the team, I needed to leave the role to join the doctoral training programme.

May 2014–Jan. 2015 **MEng Project Intern at Broadcom Europe Ltd (Edinburgh, UK)**

I researched and designed a low-power, high-accuracy CMOS temperature sensing system which included a PTAT sensing core, a sigma-delta ADC and auxiliary circuitry. I used computer-based electronic design and simulation tools including Cadence Virtuoso ADE and Layout, Verilog-A, and MATLAB, together with proprietary versioning-control and Jira ticketing system.

May 2013–Sep. 2013 **Engineering Intern at Broadcom Europe Ltd (Edinburgh, UK)**

I gained experience in CMOS analogue design, simulation, layout and testing while working in an engineering team on projects of industrial and commercial relevance.

2011 – 2015 **Committee member at IET Scotland SE Young Professionals**

I helped plan and organise relevant free and open-to-all events to address the observed needs of young professionals and engineering students. I took several roles in the committee alongside other student and professional representatives associated with the Institution of Engineering and Technology (IET).

AWARDS AND HONORUS

2018	**Impulse Certificate** awarded by the **Impulse Programme (Maxwell Centre)** for entrepreneurial learning and enterprise development
2016, 2017	**Certificate of Attendance** awarded by the **Judge Business School** for regular participation to the Enterprise Tuesday business and entrepreneurship seminars and networking sessions
2016	**Sensors Champion** awarded by the **Sensors CDT** for outstanding involvement during the MRes
2015	**Whittington Prize** and **Class Medal** awarded by the **University of Edinburgh** for the best overall performance in the MEng degree
2015	**Ewart Farvis Project Prize** awarded by the **University of Edinburgh** for excellence in an MEng project of industrial relevance
2013	**IEEE Communications Society Prize** awarded by the **IEEE Communications Society** for the results in the Electronics Mixed-Signal Laboratory
2011	**Horsburgh Prize** awarded by the **School of Mathematics** of the University of Edinburgh for excellent first-year results

MISC

Memberships	CUTEC, ideaSpace, Makespace, IET	**Driving License**	Cat. B since 2009
Languages	RO (native), EN (superior), FR (novice)	**References**	Available on request
Hobbies	Cycling, squash, prototyping, photography, travel		