Paul Guermonprez

Innovation Engineer with a focus on AI and CyberSecurity

Objective

Looking for: A challenging position in innovation management that would best utilize my expertise in the software, AI and security industries. This position should have opportunities for an experienced, dedicated individual with the communication and leadership abilities needed to manage projects and collaborators.

Strengths: discovering and mastering new technologies very early in the curve, making sense of new markets with multiple players, client-partner relations, organizing trainings and field operations, prototyping and managing innovative R&D projects.

US Status: I have a work permit (EAD).

Experience

2017–present   **Intel - Drone Team**, *Software/AI Autonomous Drone Architect*, Santa Clara, CA.
Designed and co-developed autonomous drone solutions for major US/EU clients in the aerospace/logistics/energy/defense sectors. From autonomous behavior on the drone (AI/DL/CV/ROS) to AI photo analysis (Tensorflow/CV/SageMaker) on the server side. SAAS business intelligence data mining (Serverless/GraphQL). Additional tasks: AWS solution architecture (AWS-CSAA), AWS cost and performance optimizations, Cybersecurity audits.

2017–present   **Toulouse University**, *Lecturer*, Toulouse, FR.
Created and currently teaching a module on innovation and entrepreneurship for the IoT course.

2013–2017   **Intel - Software Group**, *Senior Innovation Engineer*, Toulouse, FR.
Co-developed innovative IoT solutions and smart factory with industrial partners and start-ups.
Developed industry-university collaborations and technical transfers in the fields of IoT and robotics.

2006–2013   **Intel - Software Group**, *High Performance Computing Engineer*, Paris, FR.
Optimized the performance and scalability of enterprise software architectures and code for major European clients (telco/finance/health/web). Specialization in J2EE, runtimes and app servers.
Optimized High Performance Computing solutions for major European HPC software vendors and universities (MPI/OpenMP/TBB/Compiler). Specialization in life sciences.
Teaching Courses on HPC, parallel programming and optimization in universities all over EMEA.

1999–2006   **Nautilus Biotech, Integragen**, *Data Scientist / BioInformatician*, Evry, FR.
From design to production: developed large scale laboratory information management and personalized medicine solutions (J2EE/LIMS). Research: first pilots of human gene therapy, participated in the discovery of genes involved in diabetes and autism. High-throughput gene sequencing.

1997–2001	**Lane et Guermonprez**, *CEO / Software Developer*, Paris, FR.
	Co-created a Start-Up specializing in data science analysis for the biotechnology sector.
1998–1999	**Genethon**, *1 year internship followed by full-time contract*, Evry, FR.
	Developed Java1 software to study and represent vectors used in world-first human gene therapy.
1999–1999	**Institut Pasteur**, *6 months internship*, Paris, FR.
	Unit of Biology in Immune Regulations, studying Bordetella pertussis (whooping cough bacteria).

Publications and Conferences

2018	**Industry group: INTERPOL Drone Expert Group Panel**, *Member*, Singapore, SG.
	Study of the impact of drones on illegal activities and appropriate countermeasures.
2015-2017	**Thesis: Master of Science by Research**, *Continuous education/research*, Toulouse, FR.
	Design Thinking Workshops to resolve dialectic tensions in Disruptive Innovation Teaching.
	Recorded talk: Link:paul.guermonprez.eu - Toulouse University
2016	**Conference: Airbus-Intel-Pivothead AI-AR glasses**, *Product lead*, San Francisco, CA.
	Intel AI-AR glasses for Airbus Smart Factory demoed at IDF2016 by Intel CEO Brian Krzanich.
	Link: Demo Video on Youtube, by CNET
2016	**Conference: Microsoft-Pivothead AI-AR glasses**, *Consultant*, San Francisco, CA.
	Pivothead AI-AR smart glasses using Microsoft Cognitive Services for vision assistance, presented by Microsoft CEO Satya Nadella. Link: Demo Video on Youtube, by Microsoft Research
2014	**Conference: Drones and Human Rights @ United Nations**, *Presenter*, Geneva, CH.
	Presenting at the United Nations in Geneva, during the session on Drones and Human Rights.
2014	**Book: Les Drones Débarquent @ FYP Editions**, *Author*, Paris, FR.
	Book on the social impact of drones, their use in modern warfare and how they will change all industries. Several radio and print interviews, including national radio and international talks.
2011–2018	**Courses: Open Course Ware**, *Author and Curator*, Paris, FR.
	15k-100k course downloads per month. HPC, mobile, IoT, embedded, autonomous drones.
2009	**Conferences: Copyright Law @ European and French Parliaments**, *Presenter*.
	Presenting the vision of the Internet Society as Secretary General during a panel on Copyright Law organized by MPs at the European Parliament in Bruxelles. Co-founder of the Création, Public et Internet initiative launched at the French Assemblée Nationale, event organized by MPs.
2008–2013	**Politics: Presidential Platform - Technology, Privacy and Law**, Paris, FR.
	Head policy writer for tech/AI/copyright/security chapter of the presidential elections platform for the center party. Research, interview, collaboration with FR and EU legislators.
	Ghost author for a book on politics: Collaborative writing, research, interviews.

Studies and Certifications

2019	**Amazon Web Services**, *Certified Solutions Architect (SAA) and Security Specialty (SCS)*.
2015–2017	**MScRes - Master of Science by Research**, *Toulouse University*, Toulouse.
1997–1999	**Undergrad studies: Biochemistry and Molecular Biology**, *Paris VI University*, Paris.
1995–1997	**Medical School Student**, *Hopital Broussais Hotel-Dieu, Paris VI University*, Paris.

Interests

Hobbies	Sailing (instructor), diving, tango, cooking, beekeeping, skiing, hiking.
Flying	Paraglider, motorized paraglider, drones. Ultralight ULM and Drone french pilot license.
Associations	Former Secretary General for the Internet Society french chapter. Red Cross.
Politics	Candidate for the Mouvement Democrate (center party) in Paris 5th district 2008 elections.