

Saša Radosavljevic,
1 rue d'Arsonval,
91400 Orsay
France
+ (33)7 82 22 21 82
sasa.radosavljevic@ens-paris-saclay.fr

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Human Resources,
ProvenRun,
77 avenue Niel, 75017 Paris, France

Seeking an internship and a Ph.D. in Embedded Systems

Dear Human Resources manager,

I am writing to apply for an internship in the Electronic Engineer research and development team at ProvenRun. I am a second-year student of an Electrical Engineering master's degree at Université Paris-Saclay. I found out about your objectives to increase security on embedded systems as they are essential to any smart device connected to the Internet. I am interested in taking part in this challenge to improve digital security with a hardware approach.

I did a higher-education teaching master's degree in electrical engineering last year and learned for the first time about Network Security during this training. I had to configure a local area network hosting a web-server open to the internet. During the project, I had to make the router, the switch, and the firewall configuration. It taught me a lot about security as I was directly open to the World Wide Web and received a lot of unusual connection attempts and HTTP queries.

As my CV indicates I did a 10-week placement at Centre de Nanosciences et de Nanotechnologies. I was involved in designing induction sensors and electronic circuits, working on both the software and hardware. The main objective was to reduce the size of the hardware to make it fit in narrow places. Working with researchers has helped me acquire both research and work experience.

This year I am taking courses in Advanced Hardware Architectures in which I am deepening my knowledge in embedded hardware such as RISC-V architectures. I am also taking courses on Embedded Systems Reliability and Security where I am learning about fault injections, attacks, and countermeasures against them. These courses match your job offer as it involves many expertise fields of security.

Furthermore, working on many projects as part of my education has contributed to my organisational and communication skills. As each project required reports and documentation, I have developed efficient written skills that will be helpful in any future project. In addition to all the projects I have done, the teaching master's degree taught me a lot about restructuring my knowledge to share them in an educative way.

I hope that you will consider me a suitable candidate for a placement and look forward to hearing from you. Should you require any further information, please contact me.

Yours faithfully,

Saša Radosavljevic