Sony Internship Position Application Form (Your own resume must be attached)

Position Number

Priority 1	Position 8
Priority 2	Position 7
Priority 3	Position 6

General Information

Name	Zidelmal Yacine

Essay Questions

1. Please describe one project or research that you focused on. Must include role you played, difficulties, learnings and reflection. (About 800 words)

In my second year at the university we had a school project in computer architecture field. In this project we were given an existing CPU architecture (which was relatively basic) and we had to improve this CPU to respond to some specific needs. we had in a hand, to maximize the performance of the CPU and in the other hand to keep it low power consuming.

That was,actually, a very challenging project for us and took us a lot of time thinking of several solutions and trying different architectures using some simulators to fulfill the best configuration.

We were working on adding some efficient registers and wiring an optimized cache memory in order to speed up the instructions/data fetch time of the CPU. Besides , we worked on optimizing the instruction set of the CPU in order to respond faster to some use-cases that were proposed to us.

I was the team lead for this project, where I had to manage a team of six elements from variant backgrounds and ambitions. I had to clarify the work to do for every team member and synchronize and supervise everything happening in this project. All that while thinking with the team members about designing solutions and implementing them. And I think that I did the job very well, because our team won the first place in this project. Moreover, we learned a lot about high performance computing and appreciated a lot working on a search project in team.

2. Please describe what you would like to contribute through the position you are applying in Sony, from the aspect of knowledge/skills or experience. (About 500 words)

By applying to this internship , I am willing to contribute in some works of Sony that will be used by millions of people all around the world.

The first thing I can bring to this company is my knowledge in computer science in general. Especially my double profile of software engineer and deep learning enthousiaste. Actually I am studying software Engineering at the Higher School of computer science. At the same time learning everything related to neural networks (especially deep learning and computer vision), I am participating In School of AI algiers events and training.

I like working in group and I am also a good project leader and team team manager.

I had very rich experiences in the professional world since my first year of training , where I started internships in some companies. And one year ago I started working as a web developer in a french company , then I moved three months ago to another european company (AIGSystems located in Ireland) as a software engineer)