

Strasbourg, le 25 août 2014

**Laboratoire
des sciences de
l'ingénieur,
de l'informatique et
de l'imagerie (Icube)
UMR 7537**



to

Alcatel-Lucent Bell Labs

Objet : Recommendation of Marc Frîncu for the CLOUD/NFV researcher position

Dear Madam/Sir,

Stéphane GENAUD

Professor

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I first met Marc Frîncu in 2007 when he was a student on an internship in my team at the INRIA research center of Nancy, France. I was at that time on the leave from my university on a researcher position. Although we have not directly worked together at that time, I know from my colleagues that he perfectly achieved his objectives during his internship, which led my colleagues to propose him to apply for a *CORDI* PhD funding at INRIA. Marc preferred to return to Romania, where he went on with a PhD on a subject related to scheduling applications for Grids. This research theme is close to my owns, and I noticed during the last years the interesting results published by Marc in conferences in the domain.

In 2012, I learned that Marc was searching for a PostDoc position and I immediately proposed him to join us, to work on scheduling for clouds. This theme perfectly matched Marc's professional objectives. Marc joined us on October 2012, to participate in the national project SONGS¹ I am involved in. The objective is to enrich the existing SimGrid simulation toolkit with an API dedicated to the simulation of cloud-based systems. Simultaneously to the work on simulation, we carry on theoretical studies on the impact of different scheduling strategies on different types of workloads, that may correspond to certain activity types, or certain application models (e.g submission of independent jobs, or workflows, etc). These scheduling algorithms will be candidate solutions that could benefit from our cloud simulator development. Ideally, our simulation results will be compared to those produced in a real software framework, such as the one under development in our team.

Marc has worked one year on this project (until september 2013). I must say Marc has been incredibly active and autonomous during this period. We have started several articles, always on Marc's initiative, and all were finally published but one still under review. During his stay, Marc has shown an impressive body of general knowledge in the field of grid and cloud computing. We have taken this opportunity to make a survey of the existing literature on brokering for IaaS clouds. Among other tasks, he has helped in the supervision of a PhD and a Master student in the group, thereby showing a great teamwork spirit.

As a conclusion, I have been favourably impressed by the capabilities of Marc to quickly identify and summarize relevant research issues, and then to write it in a very fluent style. He is both a very autonomous, and hard-working person. Marc's stay (1 year) at or

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1. <http://infra-songs.gforge.inria.fr/>

institution has been very fruitful and allowed us to achieve almost all the numerous objective we assigned ourselves. The position he is applying for at the Alcatel-Lucent Bell labs center to work Network Function Virtualization seems well in the scope of his expertise, given his work on clouds and high availability. Therefore, I strongly recommend Marc for this position.

Stéphane GENAUD

A handwritten signature in blue ink, appearing to read 'Stéphane GENAUD', with a stylized, flowing script.