

Embedded Systems Department
Philips, High Tech Campus
Eindhoven

October 19, 2013

Dear Ms. Sanne van Huussen:

It is with great interest that I am forwarding my resume to you for the full-time position “**Junior designer**”, advertised on the Philips Careers website (job number: 048419).

I am applying for this job since I believe that I have the skills as well the enthusiasm to work within Philips Embedded Systems Department.

I am a **biomedical engineer**, graduated with **honors**, and currently at the second year of PhD at the Technische Universiteit Eindhoven (TU/e). My main current research focuses in the use of emerging technologies (**smartphones, ubiquitous and embedded** sensors) in healthcare systems to monitor chronic patients' vital functions. In particular my efforts aim to achieve deeper insight into daily activities that is needed to interpret the patients' status and disease trends.

Thanks to my research and collaborations with Philips Research through a NWO project I came to know the cutting edge research conducted at Philips and I gained valuable expertise in **wearable systems for healthcare applications**. During the last two years I worked with **different sensor modalities** (motion sensors, respiration sensors, ECG sensors) in order to develop new solutions for home disease management, also writing technical reports, scientific publications and protocols for clinical studies and systems validation.

My work on the above mentioned research project has also allowed me to develop proficiency working within a cross-functional team to solve complex engineering problems. I am highly self-motivated and have been given substantial latitude in developing my own innovative solutions. I developed and validated, for example, a **patient motion training system** based on a smartphone that integrates in clinical routines and serves as tool for therapists and patients. I also developed an open-source smartphone **framework for sensor data acquisition**, signal processing, pattern analysis, interaction and feedback that integrates **multiple sensing modalities** especially suitable for patient monitoring. I am currently working on an innovative method to detect and monitor breathing patterns in the wild.

Unfortunately my research group is moving by the end of the year to Passau, Germany. Although I was offered by my current supervisor to follow him to Germany, I would strongly prefer to continue my career here in the Netherlands and in particular at Philips. Since I have to take a decision about continuing my PhD in Germany by the end of October I would really appreciate if you could give me the first feedback by then.

My belief is that I could make significant contributions to your research and that my education and abilities will be employed to their full potential in this position. I enclose my curriculum vitae for your consideration. I welcome the opportunity to meet to discuss with you personally.

Sincerely,

Gabriele Spina

Gabriele Spina

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