Gabriele Spina
Nieuwstraat 29
Eindhoven 5611DA, The Netherlands

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Handheld Diagnostics Department
Philips
High Tech Campus
Eindhoven

Dear Hiring Manager:

It is with great interest that I am forwarding my resume to you for the full-time position "Signal and image processing Engineer (Job Number 185658)".

I graduated in Biomedical Engineering with honors with a thesis focused on developing and implementing on the the iCub robot an active vision system that autonomously explores its environment and learns object representations without any human assistance. In this context I developed image processing skills for a real time application (https://sites.google.com/site/gabbospina/let-it-learn).

Currently, I am a last year Ph.D. student at Philips Research (Smart Professional Spaces group) and at the department of Signal Processing Systems of TU/e. My contract ends in January 2016 and my Ph.D. defense is planned in June 2016.

My Ph.D. was part of the successfully completed Philips Project iCare4COPD under Contract PNE101005. My research focuses on analyzing data comprising physiological information and objectively assessed physical activity in patients with chronic obstructive pulmonary disease (COPD). In particular, my efforts aim to investigate and further developed signal processing and machine learning methods to derive patient characteristics and behavioral patterns. The extracted information can be used to obtain new markers of patient's improvements and as input of innovative and adaptive coaching systems.

During my Ph.D. I developed research experience in the area of data analysis to support management of patients with COPD publishing several papers in both technical and medical journals. Moreover, I contributed to the Philips Intellectual Property with innovative ideas among which: one was selected as first Runner up at Philips Sleep and Respiratory Care's first Creative Playground and three were filed as patents. Another patent filing is in progress.

My belief is that I could make significant contributions to your current and future projects and that my education and abilities will be employed to their full potential in this position.

I have enclosed my resume for your review. I look forward to hearing from you.

Sincerely,

Gabriele Spina