Montréal, August 12th, 2024

To whom it may concern,

Dear Madam or Sir,

I had the opportunity to supervise Clément Detry during his internship at Humanware as part of his Professional Masters in Artificial Intelligence from University of Montréal for 6 months and more recently as a consultant in AI hired by Humanware for about 9 months.

Clément has worked on a complete Al project, from the selection of pertinent data to the implementation of various deep learning models related to computer vision.

His responsibilities were to implement the real time detection of personal objects belonging to blind people in indoor scenes in the context of a few-shot learning scenario. The complexity was to select and train models with existing architectures to our use cases with a specific adaptation due to time and computing power constraints and make them work together (powerful region proposal network able to detect small objects at far distance, contrastive learning, visual encoder, SVM, object tracker, ...). He also implemented the Android code to play with those models running on the GPU or DSP of our GPS navigation tool with complex heuristics to simplify the user interface for blind users.

Clément works with very little supervision, has strong analytical skills, with a great initiative and independence, always questioning himself with possible improvements. In parallel, he is a real team player, always been there in difficult times during the project by proposing innovative and clever solutions.

As Head of Emerging Technologies at Humanware, I was personally very impressed by Clément's achievements and therefore highly recommend him for a position in computer vision in a team where he can bring his experience and continue to evolve!

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