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Neuhausen, 13. Januar 2019

### BSc/MSc Graduation Project 2019

Dear Ms. Maggie Gaid,

Due to your outstanding academic performance and based on the recommendation of the Vice President of Academic Affairs – GUC, I am pleased to invite you to conduct your graduation project and thesis work in collaboration with our Trapeze R&D Lab Switzerland and our strategic R&D Partner Idea in Motion I<sup>2</sup>M Egypt. The project assignment details are as follows:

- Title: **TI1905: Dispatcher Actions using Speech Recognition**
- Brief description: Natural Language Processing (NLP) and contextual analysis techniques have matured greatly over the last decade, with applications rising in many industries. The evolution of transport network operators to more automation requires an AI-enabled control center room.  
  
In this project, we aim to enhance the capability of our system, enabling it to understand human speech from vehicle driver input and trigger dispatcher actions automatically. As such, an AI dispatcher agent needs to understand a message/call from a driver in order to trigger the necessary action.
- Duration: **6 Months (expected start date in February/March 2019)**
- Advisors: Dr. Karim Badawi, ETH Zürich and Trapeze Switzerland  
Dr. Mohamed Omar, Idea in Motion Egypt

Sincerely,  
Dr. Karim Badawi

