

**PUBLIC SELECTION BASED ON QUALIFICATIONS AND INTERVIEW FOR THE AWARDING OF NO. 1 EARLY STAGE GRANT LASTING 12 MONTHS FOR CONDUCTING RESEARCH PURSUANT TO ART. 22 OF LAW NO. 240/2010 AT THE DEPARTMENT OF ENGINEERING AND APPLIED SCIENCES (A.R.F. 09/E3 ELECTRONICS - A.D. ING-INF/01 – ELECTRONIC ENGINEERING) TYPE B (CUP: E18B17000320009)**

announced with decree of the Rector Rep. no 342/2018 of 23.05.2018 and posted on the official registry of the University on 23.05.2018

**RESEARCH PROJECT**

***“Design and test of a sensor system for the monitoring of elevators”***

**Department of Engineering and applied sciences**

**Tutor:** Prof. Valerio Re

**A.D.** ING-INF/01 – Electronic Engineering

**A.R.F.:** 09/E3 - Electronics

The project has the goal of developing an IoT (Internet of Things) system for the monitoring and the maintenance of elevators. The research activity will focus on the study of a multisensory platform transmitting data to a cloud application, including real-time signals for the detection of anomalous behavior, together with information about vibrations, inclinations, dilatations and electrical current absorption. Besides hardware design and testing, the research program foresees the development of algorithms for the extraction of relevant parameters in view of monitoring and maintenance activities, processing data gathered from sensor measurements.