

AN INNOVATIVE PRACTICE IN A  
GRADUATE COURSE COMBINING  
STARTUPS EVALUATION  
AND IMAGE PROCESSING

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# ABSTRACT

- A joint development of business and engineering skills should be a nowadays concern in order to fulfill with the expectation and the vision of educating the engineer of 2020.
- In practice, such harmonization of abilities and skills during the educational experience provided by a course may be challenging due to several reasons.
- The lack of homogeneity regarding students' background within a specific course, as well as a short duration of the course itself are among the reasons



# EXISTING SYSTEM

- Information Technology (IT) professionals in general, should acquire knowledge and skills in order to be fully competent in a continuously developing and challenging economical, technological and social context.
- Consequently, IT professionals must be able to go beyond their technical knowledge and skills, towards multidimensional and contemporary issues and achieve trade-offs among environmental, economic, technical, societal and individual concerns
- Business management skills involve knowledge about marketing, management strategy, human resource management, accounting, product management



# PROPOSED SYSTEM

- An innovative practice conducted for engaging students in the development of skills in business and engineering is presented. The practice was focused on image processing startups evaluation.
- It involved professionals from different areas such as management, accounting, and engineering in a master's program of information technology.
- The course had a duration of eighth sessions, in a time period of a month. Student outcomes were evaluated according to a rubric designed for this context.
- It considers engineering, business, and communication skills. This practice was motivated on previous experiences of the same course where the instructor found the challenges mentioned above



# HARDWARE REQUIREMENT

- Processor - Intel
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Monitor - SVGA

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# SOFTWARE REQUIREMENT

- Tool - MATLAB R2012
- Operating system - Windows Xp, 7

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# REFERENCES

- D. Ktoridou and N. Eteokleous, “Engineering education: Time to reform the fragmented, content-overloaded curricula context?”, in 2014 IEEE Global Engineering Education Conference (EDUCON), April 2014, pp.377—380
- J. Prados, G. Peterson, and L. Lattuca, “Quality assurance of engineering education through accreditation: The impact of engineering criteria 2000 and its global influence”, Journal of Engineering Education, vol94, no. 1, pp. 165--183, 2005
- I. Cabezas, “On combining gamification theory and abet criteria for teaching and learning engineering”, in 2015 IEEE Frontiers in Education Conference (FIE), 2015, Oct 2015, pp. 1–9.

