ERIK DE GODOY PERILLO

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EXPERIENCE

Phoenix Team of Robotics   2013 - 2016
Project Manager   *University of Campinas, Brazil*

· Lead two successful projects with around 8 people each.
· Helped design three autonomous robots and created a Computer Vision framework for robots using OpenCV.
· Leader of project *Piranha* (2015-2016): An autonomous mini-vehicle with trajectory planning/execution and targets/obstacles recognition. We got first place, scoring a new record in a latin-american robotics challenge.
· Leader of project *Baleia* (2014-2015): An autonomous mini-vehicle. We competed in a latin-american robotics challenge being the first newcomers in category to get third place.

Institute of Computing   2016 - Present
Undergraduate Researcher on Artifitial Intelligence (CNPQ)   *University of Campinas, Brazil*

· The project aims at developing a general framework for real-time objects detection/recognition allowing mobile robots to explore unkwown environment.
· Created `att`, a visual saliency detection model written in Python that predict where people look on images. Our preliminary results suggest competitive performance when compared to similar mature models in MIT300 benchmark.
· I am currently implementing state-of-the-art techniques for saliency detection using deep learning.

Computational Mechanics Laboratory   2014 - 2015
Undergraduate Researcher on Computer Systems (AMD)   *University of Campinas, Brazil*

· Analysed multiple memory management techniques by Linux Kernel for NUMA systems. Designed techiques for determining which policy to use via application profiling.

Renato Archer Center of Technology   2013 - 2014
Undergraduate Researcher on mobile robotics (CNPQ)   *Campinas, Brazil*

· Built a framework for real-time indoors tracking of quadrotors using OpenCV. Compared to the older system, we achieved real-time tracking of twice as much objects and no need for special hardware, only simple webcams.

EDUCATION

University of Campinas (Unicamp), Brazil   2014 - Present
B.S. in Computer Science/Engineering

· T.A. (2016) in *Algorithms and data Structures 2*. I helped teach and design/administer exercises sessions.
· Overall GPA: 3.4 (above 90% of class).
· Unicamp is ranked second best (overall and in Computer Science) in latin america according to QS rankings 2016.

ADDITIONAL INFORMATION

· Computer Languages: Python, C++, C, Java, shell-scripting, Haskell, Scheme.
· Interest in Machine Learning/Computer Vision: built object classifiers with OpenCV, text classifiers for big volumes of data using Apache Spark.
· A wide variety of small projects, such as a TCP/IP chat in C++, Steganography in images with Python, a real time hashtag counter using Twitter streaming API and Apache Spark.