ERIK DE GODOY PERILLO

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EXPERIENCE

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

- Leader of project *Piranha* (5 people team, 2015-2016): An autonomous mini-vehicle. First place in *Robocore*'s latin-american 2016 robotics challenge, setting a new record.
- Leader of project *Baleia* (7 people team, 2014-2015): An autonomous mini-vehicle. Third place in *Robocore*'s latin-american 2015 robotics challenge.
- Helped design three autonomous robots, creating navigation, communication and computer vision systems.

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

- Created `att`, a visual saliency detection system based on human vision written in Python.
- Currently building a new model using Deep Learning to be used in real time by exploratory robots.

Undergraduate Researcher on High Performance Computing 2014 - 2015
Computational Mechanics Laboratory (grant by AMD) *University of Campinas, Brazil*

- With Machine Learning, designed a predictive model to infer performance under various memory policies in ccNUMA systems, saving 66% of time in determining the best policy for each program.
- Our work resulted in a paper accepted for ERAD-SP 2017 conference in Brazil.

Undergraduate Researcher on Computer Vision 2013 - 2014
Renato Archer Center of Technology (grant by CNPQ) *Campinas, Brazil*

- Built a tool for real-time indoors tracking of mobile robots using OpenCV (C++). Compared to the older system, we achieved tracking of more objects and no need for special hardware (only webcams).

EDUCATION

B.S. in Computer Science/Engineering (in progress) 2015 - Present
University of Campinas (Unicamp) *Campinas, Brazil*

- Teaching Assistant (2016/2017) in *Data Structures*. Helped design/administer programming assignments.
- GPA: 8.49/10 (above 92% of class).
- Coursework in Control Engineering (2012-2014) including: Dynamics, Statics, Linear Systems.

PROJECTS

- `golb`: Minimalistic blog platform built with Django.
- `Piranha Robot`: built inter-communication system using UDP protocol (C++), vision system using CUDA OpenCV (C++/Python), helped build PID control unit using NXP platform/sensors (C/C++).
- `hct`: Real time hashtag counter using Twitter Streaming API and Apache Spark.
- `Baleia Robot`: built navigation system using Adafruit's BBIO library (Python), vision system using an image classifier to detect objects in OpenCV (Python).
- `oarg`: A command-line argument parser for Python.
- `ichat`: TCP command-line chat in C++ with file transfer and notifications.