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.
· 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*

· Working towards a framework for real-time vision allowing mobile robots to explore a variety of environments.
· Created `att`, a visual saliency detection model written in Python for predicting where people look on images. Our preliminary results from MIT300 benchmark suggest performance close to similar mature models.

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

· Analysed Linux memory management policies for NUMA systems and multiple memory contention metrics.
· Designed a predictive model to infer the performance of applications under different memory policies.

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. 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

B.S. in Computer Science/Engineering (in progress)   2012 - Present
University of Campinas (Unicamp)   *Campinas, Brazil*

· T.A. (2016/2017) in *Data Structures*. Helped teach and design/administer exercises sessions.
· 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.
· `imsg`: Steganography for images written in Python.