

ERIK DE GODOY PERILLO

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EXPERIENCE

Project Manager

Phoenix Team of Robotics

2013 - 2016

University of Campinas, Brazil

- Lead two successful projects with around 6 people each.
- Helped design three autonomous robots and created Computer Vision solutions for robots using OpenCV.
- Leader of project *Piranha* (2015-2016): An autonomous mini-vehicle capable of visual recognition of targets/obstacles. We got first place, setting a new record in *Robocore's* latin-american robotics challenge.

Undergraduate Researcher on Artificial Intelligence

Institute of Computing (grant by CNPQ)

2016 - Present

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 that predict where people look on images. Our preliminary results from MIT300 benchmark suggest performance close to similar mature models.

Undergraduate Researcher on Computer Systems

Computational Mechanics Laboratory (grant by AMD)

2014 - 2015

University of Campinas, Brazil

- Analysed multiple Linux memory management policies for NUMA systems.
- Designed techniques for determining which memory policy to use via application profiling.

Undergraduate Researcher on Computer Vision

Renato Archer Center of Technology (grant by CNPQ)

2013 - 2014

Campinas, Brazil

- Built a tool 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

B.S. in Computer Science/Engineering (in progress)

University of Campinas (Unicamp)

2012 - Present

Campinas, Brazil

- T.A. (2016) in *Data Structures*. Helped teach and design/administer exercises sessions.
- In-major GPA: 3.25 (above 86% of group).
- Coursework in Control Engineering (2012-2014) including: Dynamics, Statics, Linear Systems.

TECHNICAL EXPERIENCE

Languages and Technologies

- Python, C++, C, Bash, R, Java, Matlab/Octave, Haskell, Scheme.

Projects

- **hct**: Real time hashtag counter using Twitter Streaming API and Apache Spark.
- **oarg**: A command-line argument parser for Python.
- **imgsteg**: Steganography in images tool for Python.
- **ichat**: TCP command-line chat in C++ with file transfer and notifications.
- **mlct**: Naive Bayes text classifier for big volumes of data using Apache Spark Mlib.
- Object finder using image classifier with OpenCV with Python/C++.