

# ERIK DE GODOY PERILLO

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## EXPERIENCE

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### 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 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

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### 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.
- GPA: 3.25 (above 86% of course group).
- Coursework in Control Engineering (2012-2014) including: Dynamics, Statics, Linear Systems.

## TECHNICAL EXPERIENCE

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### 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.

### Languages and Technologies

- Python, C++, C, Bash, R, Java, Matlab/Octave, Haskell, SQL, Scheme.
- Linux/Windows environments, Vim, git, OpenCV.