

ERIK DE GODOY PERILLO

Americana, SP – Brazil

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EXPERIENCE

Project Manager

2013 - 2016

Phoenix Robotics Team of Unicamp

Campinas, Brazil

- Leader of projects *Piranha/Baleia*, two autonomous mini-vehicles (5-7 people team). Third/First place in *Robocore's* latin-american 2015/2016 robotics challenge, setting a new record.
- Built navigation, communication and computer vision systems during the conception of 3 autonomous robots.

Undergraduate Researcher on Artificial Intelligence

2016 - Present

Institute of Computing, University of Campinas

Campinas, Brazil

- Created a visual saliency detection system using Deep Learning. Our model has around 3/4 less parameters than similar methods yet achieves top-10 performance on MIT300 benchmark.
- Best Undergraduate Research Project Award on WTD2017 conference at Unicamp.

Undergraduate Researcher on High Performance Computing

2014 - 2015

Computational Mechanics Laboratory, University of Campinas

Campinas, Brazil

- Designed a tool using Machine Learning to infer performance in ccNUMA systems, saving 66% of the time to determine the best memory policy for applications.
- 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

Campinas, Brazil

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

EDUCATION

B.S. in Computer Science (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 with Adafruit's BBIO library and vision system with OpenCV.
- **oarg**: A command-line argument parser for Python.
- **ichat**: TCP command-line chat in C++ with file transfer and notifications.