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*

· Created `att`, a visual saliency detection system based on human vision. Our preliminary results from MIT300 benchmark suggest performance close to other models with similar architecture.
· 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*

· 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. 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.
· `oarg`: A command-line argument parser for Python.
· `ichat`: TCP command-line chat in C++ with file transfer and notifications.