

Domas Buracas

Last Updated on 20th February 2018

<http://axquaris.github.io>
dominykas@berkeley.edu | (858) 531-8039

SUMMARY

Computer Science student with extensive software engineering and robotics experience. Actively pursuing summer internship opportunities.

EDUCATION

UC BERKELEY

BA IN COMPUTER SCIENCE
Expected May 2021

PRINCETON UNIVERSITY

PACT SUMMER 2017
Program in Algorithmic and Combinatorial Thinking

COURSEWORK

UNDERGRADUATE

Intro to Machine Learning
& Data Science
Data Structures and Algorithms
Intro to Electrical Engineering II
Upper Div. Linear Algebra
Multivariable Calculus
Discrete Math & Probability Theory

SKILLS

LANGUAGES

Fluent (5000+ Lines):
Python (6 Years) • Java (4 Years)
Familiar:
ΛT_EX • JavaScript • HTML • CSS • SQL

LIBRARIES

OpenCV • Tensorflow • ROS
Numpy • Pandas • Seaborn
PyQt • Selenium

TOOLS

Proficient:
Git/Github • Ubuntu • Photoshop
Familiar:
Docker • Solidworks

LINKS

Github:// [axquaris](https://github.com/axquaris)
LinkedIn:// [dburacas](https://www.linkedin.com/in/dburacas)
Website:// axquaris.github.io

WORK EXPERIENCE

NEUROTECHNOLOGY | ROBOTICS AI INTERN

Aug 2017 | Vilnius, Lithuania

- Studied ROS and company's proprietary SLAM algorithms for autonomous navigation and object manipulation
- Improved object grasping accuracy by modifying algorithms to compensate for inaccuracies in point cloud models

VERISKIN, INC. | COMPUTER VISION INTERN

Jul 2016 - Dec 2016 | San Diego, CA

- Quantified hemodynamic properties of skin by building and applying computer vision algorithms to video, leading to the diagnosis of cancerous tissue

E-WORLDDIEWEB, INC. | WEB AUTOMATION DEVELOPER

Jun 2014 - Sep 2015 | San Diego, CA

- Automated the acquisition of "dropped" domains, removing the need for people to constantly monitor domains of interest and increasing the chance of successful acquisitions

TEAM PROJECTS

AUV ROBOTICS TEAM | IMAGE PROCESSING TEAM LEAD

Sep 2017 - Present | UC Berkeley

- Building AI for autonomous underwater navigation and object manipulation using computer vision techniques
- Distributing programming workload by isolating and assigning AI modules to team members

FRC ROBOTICS TEAM 2984 | LEAD ENGINEER

Sep 2013 - May 2017 | La Jolla High School

- Orchestrated sub teams to develop and execute a coherent plan for fabrication
- Implemented the use of Solidworks and project management software, improving our design quality and productivity
- Designed, machined, assembled, and repaired structural components of robot chassis and manipulator

PERSONAL PROJECTS

OBJECT DETECTION AND RECOGNITION DEMO

Python, Tensorflow, OpenCV, Ubuntu

- Applied a YOLO9K deep neural network using TensorFlow to detect and identify objects for a real-time demo

BIOLOGICAL SYSTEM SIMULATIONS

Java, Python, Git/Github

- Built an interactive simulation of an ecosystem that demonstrated emergent behavioral complexity and the transfer of chemical energy through trophic levels
- Implemented a Neural Pattern Generator for generating control signals to drive a quadruped robot's gait
Research Paper Link: d-nb.info/980325501/34