Braxton Smith

Robotics Graduate Student

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Utah

linkedin.com/in/braxtonj

Creative professional open to new challenges in investment analysis.

EDUCATION

Robotics, MS
University of Utah
09/2018 – Present

- Currently work with the DARC lab on robotic search and exploration. I have a keen interest in the utilization of both information theory and reinforcement learning to this end.

Physics, BS
Weber State University
2012 – 2017 *Utah*

- GRE Quantitative: 164
- GRE Verbal: 161

WORK EXPERIENCE

Systems Engineer
Power Solutions International / AGA Systems
05/2017 – Present *Centerville, Utah*
Develops alternative fuel systems for fleet vehicles

- Prototype design and development
- Control of alternative fuel system vehicles via Matlab/Simulink
- Automation of test equipment and procedures
- In-house software development, API connection, and website development

Contact: Aaron Stuart – +1 801 231 2306

Research Intern
Scientific Computing and Imaging Institute (SCI)
University of Utah
04/2016 – 06/2017 *Utah*
Augments research groups throughout the university

- Created an automated data management system and custom data analysis tools for nuclear material in regards to forensics
- Investigate various analysis avenues of our data
- Co-author on a paper published in Analytical Chemistry

Contact: Dr. Elizabeth Jurrus – +1 707 767 8174

Intern
Qnergy
01/2014 – 05/2016 *Utah*
Develops business class Stirling engines

- Designed and developed custom tools including a multivariate data exploration toolkit, an automated reporting system and an automated data archival system from remote, global sources.

Contact: Allen Peterson – +1 801 752 0100

SKILLS & COMPETENCES

- Creative analytical solutions ●●●●●
- Scientific computing ●●●●●
- Data analysis via regression, svm, deep cnns, etc ●●●●○
- Mathematical modeling and numerical analysis of physical systems ●●●●○
- C++, Python, MATLAB/SIMULINK, SQL ●●●●○
- Complex project and product design ●●●●○
- Multi-dimensional communications ●●●○○

PROJECTS

Snowboard Analyzer (2016 – 2017)
- Firmware logs data from numerous IMU's, force sensors, and GPS on the prototype
- Analysis of the force sensors allows for generative design and personal customization for the experienced rider
- Model position and orientation of the board for riding analysis and improvement

Personal Brewhouse (2015 – Present)
- Fully equipped home brewing system

ORGANIZATIONS

Mensa

INTERESTS

Robotics | Physics | Mathematics | Scientific computation

Deep RL | Automation | Human-robot interaction

Space systems and dynamics | Cosmology | Financial markets

Snowboarding and snowsport technologies | Brewing

REFERENCE (MORE UPON REQUEST)

Jay Mealey | CEO | AGA Systems

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