BRIAN SARRACINO-AGUILERA

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http://rocketurtlestars.co

Objective: Seeking position in scientific research and engineering. Desire to utilize my skills in programming, engineering, physics, and advanced mathematics.

Education: M.S. Applied Mathematics, California State University Long Beach -Present

B.S. Applied Mathematics with emphasis in Materials Science & Engineering
University of California Merced GPA: 3.2 2015

Experience: Private Consultant
GSL Dynamics, Los Alamitos, California 7/2015-9/2015

- Designed a custom embedded solution utilizing Arduino platform and remote sensors connected via I^2C. Aggregated real time sensor-input into an Android app developed for Bluetooth data transfer to Arduino. Worked closely with client to meet technical goals in timely manner.

Private Tutor
UC Merced, Merced, California 9/2014-5/2015

- Worked with students individually and in groups. Taught students calculus, engineering materials, physics, chemistry, economics, programming in MatLab, R, Python, Arduino, LaTeX.

Internship Computational Biology
UC Merced, Merced, California 6/2013-5/2015

- Derived mathematical models of prion dynamics using linear algebra, differential equations and markov chains. Developed simulation codes, documented results, presented at conferences, collaborated with professors and graduate students on joint projects. Trained younger student researchers.

Volunteer: Youth Ministry Assistant
Corpus Christ Church, San Francisco, California 6/2010-8/2010

- Planned student activities, facilitated staff meetings, supervised students on field trips to water parks and Zoo. Addressed parent concerns and student behavior, checked sign-in documentation and permission slips.

Skills: Proficient in Linux Bash Scripting, programming C/C++, Arduino, MatLab, Mupad, Python (Numpy), GNUplot, HTML, CSS. Basic design in SolidWorks and OpenSCAD. Skilled modeling and simulating robot navigation, image and signal processing such as SVD and FFT. Analyzing and visualizing data, git version control, writing documents, public speaking, and techniques of materials characterization. Quickly design, build, and test prototypes. Can-do attitude. Self-motivated. A team player.

Interests: Guitar. Kick Boxing. Cooking.

References:

1. Benjamin Doblack, Embedded Software Engineer, Raytheon, Tucson, AZ
   (831) 345-2296 bdoblack@ucmerced.edu
2. Suzanne Sindi, Professor Applied Math, UC Merced, Merced, CA
   (209) 228-4224 ssindiucm@gmail.com
3. Fr. Jose Lucero, Parish Priest, St. John Bosco High School, Bellflower, CA,
   (626) 674-2675 jfalucerosdb@gmail.com