Berkeley T. Vogelheim

(415) 717-9264 | bvogelhe@ucsd.edu

EDUCATION

St. Ignatius College Prep.   *Graduated: June 2013*

    GPA: 4.4 Weighted, Graduated with Honors.
    Head Editor/Writer School Newspaper, Inside SI. Leadership roles in four distinct organizations.
    Salutatorian Award, Selected by teachers and student body to give graduation speech

University of California, San Diego   *Expected Graduation: June 2017*

    BS Computer Engineering, **Jacobs School of Engineering**
    GPA: 3.0

WORK EXPERIENCE

SPMB Executive Search: *Intern (Summer 2015)*

    SPMB is one of the most successful Technology and Energy search firms in the world. I personally assist in mapping and analyzing emerging markets and industries pertaining to startup companies and their emerging markets.

System Energy Efficiency Lab UCSD (January 2016 - present)

    Working on research regarding complex machine learning algorithms. Algorithms for use in Smart Grid/Power Grid analysis embedded systems. Running data analysis on residential Smart Grid.

TECHNICAL SKILLS/COURSEWORK

Languages:

    C/C++/C#, Java. Unix shell scripts. Assembly in the SPARC/x86/MIPS architecture. html/css/Javascript. MatLab. Python.

Programming Concepts:

    Proficiency implementing and fully understanding complex sorting algorithms and data structures. (BSTs, AVL Trees, Ternary Tries, Merge/Bubble/Quick Sort). Proficient understanding of graphing and compression algorithms. Proficient understanding of runtime/time-space analysis. Understanding of C compilation process and runtime environment. Digital Design, Boolean Logic.

Electrical Engineering Concepts:

    Analog Design, Binary Gates, Steady-State/ Time Domain Analysis. Linear Systems Analysis. Understanding of transistor/Bandwidth filter/diode circuits. Digital and Analog Circuit Design. Design with ORCAD and Verilog. Advanced Probability and design.