Erik G. Dobecky

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OBJECTIVE:

Obtain a position in Electrical Engineering with an emphasis on signal processing or biomedical engineering.

EDUCATION:

Bachelor of Science, Electrical and Electronic Engineering, Concentration: Analog/Digital, Signals & Systems

California State University, Sacramento • December 2007

Associate of Science, Biological Sciences

Sierra College, Rocklin • August 2003

Associate of Science, Natural Sciences

Sierra College, Rocklin • August 2003

Coursework:

Electronics I & II	Advanced Analog Design	Transmission Lines and Fields
Analog & Mixed Signal Design	Assembly/Machine Language	Intro to Microprocessors
Probability and Random Signals	Robotics	Machine Vision
Electromechanical Conversion	Modern Communication Sys	Signals and Systems
Intro to Feedback Systems	Statics & Dynamics	Project Design I & II
Device Physics	Organic & Inorganic Chemistry	Advanced Bio. Sci. Coursework

SKILLS:

Technical:

Operation of test equipment (oscilloscopes, multimeters, DMMs, programmers, etc) in troubleshooting, testing, and design verification of analog and digital electronics. Operation of medical diagnostic equipment (monitors, 12-lead EKG, pulseoximetry, etc). Experience in machining, mechanics, carpentry, construction, testing and assembly.

Communication/Project Management:

Experience in utilizing time management, organization, documentation, and communication skills in biomedical research under very strict guidelines and regulations.

Software:

OrCAD / PSPICE • Simulink • MATLAB • EagleCAD • Various graphic design • Most IDEs (C/CPP/PHP/Web)

Programming Languages:

C/CPP/C++ • Assembly • Verilog • MATLAB • Machine Language (ASM) • MySQL • PHP • XHTML • Javascript

Programming/Computer Skills:

Hardware-Software integration. Designing device libraries. Mixed C/ASM programming. Advanced OS management (MS, Linux). Networking management.

WORK EXPERIENCE:

Research Assistant **CSUS** **2006 - 2007**

Development of fall detection algorithms for a home fall meter. Intensive hardware specific design of both hardware and software while maintaining team interaction on regular design reviews and clinical data collection. Integration of advanced signal processing techniques including feature extraction and artificial intelligence.

Owner **Fourth Integral** **2003 - 2007**

Enterprise scale web-based software development. Management of corporate image, web presence, and online client interaction. Graphic design. Development of emerging technology while adhering to standards and protocols.

ACTIVITIES & ACCOMPLISHMENTS:

- Earned paid spot on an advanced biomedical research team while working and maintaining more than full time status.
- Progressed certain aspects of project further than preceding team members in a very short amount of time.
- Currently collaborating with international scientific community for publication of pure research.