KATRINA SIEGFRIED

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RELEVANT EXPERIENCE

TERUMOBCT | ASSOCIATE SOFTWARE ENGINEER
Lakewood, CO | 08/2019 to Present

TERUMOBCT | GRADUTE SOFTWARE ENGINEERING INTERN
Lakewood, CO | 2/2019 to 08/2019

· Designing and implementing embedded application software for class III medical devices
· Working with stakeholders to create medical device protocols which adhere to FDA safety and regulatory requirements
· Test driven development and use of automated testing strategies including unit testing, integration testing, and system level manual on-device testing
· C++, C, python, xml, git, github, ALM, TFS, Agile SCRUM

ACTIVE INNOVATIONS LAB | RESEARCH SCIENTIST
Boulder, CO | 6/2018 to 12/2018

· Designing and manufacturing novel testing equipment, circuit layouts, mechanical test fixtures, programming of microcontrollers, automation
· Meeting with research team and customer to outline deliverables and testing parameters
· Management of design and budget, promoting safety and efficacy

EDUCATION

UNIVERSITY OF COLORADO AT BOULDER| MS COMPUTER SCIENCE, GRADUATE CERTIFICATE IN QUALITY SYSTEMS FOR PRODUCT AND PROCESS ENGINEERING
Expected May 2021 | GPA 4.0 | Denver, CO

· Focus in embedded systems, the software and product lifecycle, and medical device applications
· Leveraging physiological knowledge to improve computer and hardware-based medical devices
· Selected Coursework: Advanced Linux Operating Systems, Data Structures, Computer Arch.

UNIVERSITY OF COLORADO AT BOULDER | MS INTEGRATIVE PHYSIOLOGY
December 2014 | GPA 3.61 | Boulder, CO

· Research focus in computer programming, biomechanics, and science education
· Development of software, documentation, and learning materials using Bluetooth with Nintendo Wii to provide high-quality, low-cost biomechanics equipment for research and education
· Selected Coursework: Biomechanics of Solids, Human Physiology, Adv. Stat. and Research Meth.

UNIVERSITY OF COLORADO AT BOULDER | BS MECHANICAL ENGINERING
August 2013 | GPA 3.12 | Boulder, CO

· Completion of biomedical engineering certificate, pre-med, minor biology
· One-year capstone project in biomedical engineering in partnership between the university and TerumoBCT redesigning and modeling the tubing in a blood collection centrifuge
· Fundamentals of Engineering Exam Certified (EIT/FE) NCEES ID: 12-648-92

TECHNICAL SKILLS
· TECHNOLOGY: Linux, Agile (SCRUM), Windows, TFS, Git/Github, ALM
· PROGRAMMING: C++/C, Python, MATLAB, Julia, R, Linux Bash