

CLAIRE COLLINS

88819 Sophie Summit, Phoenix, AZ +1 (555) 666 7943

WORK EXPERIENCE

SENIOR ALGORITHM ENGINEER *Detroit, MI*

09/2016 – PRESENT

- Good chemical understanding of Li Ion and related cell chemistries
- Good Electrical engineering background to understand impact of load behaviors on battery performance estimation
- Excellent experience in developing solutions and validating them using control theories like Kalman filters, state observers and others
- Experienced in various test tools like battery testers, EIS and others to evaluate algorithm performance in the batteries
- Experience in writing efficient codes to analyze large data sets
- Expertise in C programming in a Unix-derivative environment highly desirable
- Master of Science in Applied Physics, Mechanical, Electrical, Aerospace, or Computer Engineering, or a related Engineering field from an ABET accredited university

ALGORITHM ENGINEER *Los Angeles, CA*

02/2012 - 04/2016

- Experience in multibody system dynamics
- Assist SDK team, Platform team and hardware design team with algorithm implementation and validation
- Perform image quality tuning and measurement
- Implements or modifies existing algorithms to analyze histopathology images and data
- Collaborates with other members of a project team to meet defined scientific and technical goals/requirements
- Self initiative and at self managed with small or medium issues resolutions
- Perform algorithm documentation
- Responsible for algorithm design, development, implementation, testing, and documentation for Biomedical Signal Processing systems

ADVANCED ALGORITHM ENGINEER *Chicago, IL*

04/2006 - 09/2011

- Perform data collection, analysis, and estimation techniques
- Expertise in data analysis and data mining
- Develop algorithm calibrations for specific vehicle platforms, by exercising performance algorithms with Software-in-the-Loop development tools, using customer-provided crash data sets
- Present, discuss and negotiate with customers the sensing performance of the calibrated algorithms, and obtain authorization for release to pre-production and production vehicle builds
- Experience or university coursework in Systems, Dynamics, and Controls
- Understanding of embedded-controller digital signal processing, sampling, filtering techniques

- Hands-on experience with Matlab/Simulink, C/C++, Perl / Python programming languages
- Analyze signals from various sensors to develop concepts useful for event discrimination
- Analyze new algorithm performance requirements to determine functional gaps against existing designs. Develop algorithm solutions to close the gaps accordingly

EDUCATION

WAYNESBURG UNIVERSITY

2002 - 2006

Engineer's Degree in Engineering

PROFESSIONAL SKILLS

- Excellent skills in communication and giving technical presentations - High level of mathematical and advanced analytical interpretation capabilities
- Comprehensive troubleshooting and debugging skills
- Radar signal processing algorithm experience. Signal processing algorithm experience
- Prior experience of working in a team and handling multiple projects
- Advanced Matlab and C/C++ programming skills
- Computer skills C, C++ with ability to learn new programming languages
- Excellence in both problem solving and math skills