
ALGORITHM DEVELOPER RESUME

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Career Goal:

An ingenious and talented professional seeking the position of an Algorithm Developer to utilize my potential and skills in C, C++, MATLAB, Lean processes and DSP chips.

Technical Skills:

Thorough knowledge of developing software for:

- Computerized products
- User interface design
- Advanced applications

Adroit in implementing operation research tools:

- Excel Solver
- CPLEX C++ API
- GAMS, COIN-OR

Thorough with mathematical modeling using:

- Algorithm tools
- MATLAB

Familiarity with algorithm development in field of:

- Machine learning
- Pattern recognition
- Cluster analysis

Adept in utilizing programming languages:

- C, Python
- C++
- Java

Highly efficient in database programming with help of:

- JDBC
- MySQL

Skilled at using modeling and analyzing tools including:

- AutoCAD, ACES
- ADAMS, STK
- FACET

Outstanding capabilities to:

- Effectively implement algorithm concepts and techniques
- Utilize quality tools and LEAN processes

Relevant Experience:

Algorithm Developer
T2 Biosystems, Inc.
January 2012 – Present
Camp Hill, PA

- Coordinated with systems team for gathering requirements and software designing.
- Implemented procedures for designing and testing infrastructure components to support hardware availability.
- Participated in product development lifecycle by leveraging of DFR for Agile and Lean software development.
- Provided technical assistance for development of distributed software applications for motion control of subsystems.
- Assisted in designing concepts for new algorithms and review of professional literature.
- Executed effective processes for designing, simulation and testing of algorithms.
- Supported technical team members in preparation and designing of hardware and software implementations.

- Conducted investigation of general issues and system related technical problems by resolution.

Algorithm Developer
GE Healthcare
November 2010 – January 2012
Pittsburgh, PA

- Assisted in development of algorithms for execution of simulation capabilities to Simulink applications.
- Suggested improvement processes for parallel simulation and code generation of Simulink systems.
- Participated in all phases of product development lifecycle utilizing software coding and validation.
- Implemented procedures for instrumentation control and complete data analysis algorithms.
- Coordinated with core team members for development of algorithms on smart phones and tablets.
- Provided technical assistance for designing and development of data collection experiments.
- Executed effective processes for algorithm development and verification against live sensor data.
- Supported technical team members in integration of algorithms into embedded and non-embedded platforms.

Educational Background:

Master's Degree in Information Technology
Pine Technical College
August 2008 – May 2010
Pine City, MN

Professional Certification:

Microsoft Certified Professional Developer (MCPD) July 2010

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