Downloaded from <https://www.velvetjobs.com/job-descriptions/algorithm-engineer>

# Example of Algorithm Engineer Job Description

Our innovative and growing company is searching for experienced candidates for the position of algorithm engineer. To join our growing team, please review the list of responsibilities and qualifications.

## Responsibilities for algorithm engineer

* Define reliable and performant automotive localization methods for safety-critical driver assistance applications
* Coordinate and support the development and deployment of algorithm models and appropriate software components hardware components
* Coordinate and support related test and verification activities
* Develop technology integration paths using analytical modeling & simulation and other tools to perform trade studies, operational analyses, simulation tool development
* Generate and deliver technical reports and briefings to internal and external customers
* Support commercial contracts, government contracts, and Internal Research & Development (IRAD) projects
* Communicate with customers and global team members to interpret requirements
* Communicate with global application teams to support maintenance of developed algorithms for global production programs
* Provide system requirements/specs to drive component designs to meet present and future OBD requirements
* Implement OBD algorithms for new components in Engine Management Systems

## Qualifications for algorithm engineer

* Strong modelling skills, Matlab, background in statistics
* Master's degree in Electrical/Electronics Engineering and 8+ years of System Design experience or PhD in Electrical/Electronics Engineering and 6+ years of System Design Experience
* 5+ years of experience in Designing and implementing Digital Communications and Signal Processing Blocks
* 3+ years of experience with Fixed Point Simulations of Communication Systems working with Digital RTL Designers during IC Verification and Validation Phases
* Exposure and working knowledge in Architecture of RF Receive and Transmit Chains
* Thorough understanding of CMOS RF Imperfections and Performance Tuning