



# Visteon®

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**Requisition Number:** 13118

**Post Date:** May 2, 2017

**Title:** ADAS Matlab Simulation Environment Expert

**City:** Sofia

**Country:** Bulgaria

**Description:** ADAS Matlab Simulation Environment Expert – Sofia, Bulgaria

### About Visteon

Visteon is a global technology company that designs, engineers and manufactures innovative cockpit electronics products and connected car solutions for most of the world's major vehicle manufacturers. Visteon is a leading provider of instrument clusters, head-up displays, information displays, infotainment, audio systems, telematics and SmartCore™ cockpit domain controllers. Visteon also supplies embedded multimedia and smartphone connectivity software solutions to the global automotive industry. Headquartered in Van Buren Township, Michigan, Visteon has approximately 10,000 employees at more than 40 facilities in 19 countries. Visteon had sales of \$3.16 billion in 2016. Learn more at [www.visteon.com](http://www.visteon.com).

Visteon is an equal opportunity employer committed to a culturally diverse workforce.

### Our Vision

A top-three cockpit electronics player delivering a rich, connected cockpit experience for every car from luxury to entry

## ADAS MATLAB SIMULATION ENVIRONMENT EXPERT – SOFIA, BULGARIA

### Primary Responsibilities

- Specification and documentation of overall ADAS simulation environment based on Matlab/Simulink
- Implementation of Matlab/Simulink interfaces to ROS and DDS
- Adaption of Matlab/Simulink simulation based on log data to get models as close as possible to reality
- Implementation of models regarding third-party components
- Adaptation and integration of sub models from other ADAS teams to overall Matlab/Simulink simulation
- Creation of different versions of a simulation to increase the performance of models; adapting the level of detail and creation of sub-model environments to allow flexible component development

- Definition and realization of automated checks and Monte Carlo runs performed with the simulation to evaluate stability and comparison of simulation results with data from test runs
- Implementation of functionalities to use log data instead of simulation data as input for sub-models

### Additional Duties

- Cooperation with the ADAS execution, path planning and perception teams to integrate their sub-modules into the overall simulation environment and to provide them the best fitting customized simulation environments
- Specification and definition of middleware messages
- Specification of middleware configuration
- Implementation of Matlab/Simulink interfaces to ROS and DDS
- Adaption of the Matlab/Simulink to get models as close as possible to reality

### Requirements

**Degree Strongly Preferred:** University degree in computer engineering, automation engineering, electrical engineering or similar

### Desired Competencies/Experience

- Very good Matlab/Simulink know how, preferable in embedded/automotive area
- Experience in the Matlab/Simulink tool chain to provide ASIL compliant source code using Matlab Embedded Coder and Simulink Coder
- Experience in developing and debugging object-oriented software in a real-time, and embedded, multi-processor, multi-interface environments, preferable in automotive area
- Experience with Agile development, test-driven development and continuous integration
- Knowledge of MISRA coding guidelines
- Familiarity with development environments like ROS
- Fluent in English language
- Experience with Windows and Linux operating systems
- Experience with DDS and the usage of DDS inside Matlab/Simulink
- Knowledge of V-model based development and functional safety standards
- Research and/or development experience in robotics, automated driving and distributed systems
- Experience in feature teams using Agile / SCRUM methodologies
- Self-motivated / self-starter with the ability to find creative solutions
- Experience with working in global teams

### Apply for this Position

If you are interested in applying for this position, send your resume to [pross1@visteon.com](mailto:pross1@visteon.com), and include the requisition number in the subject of your email.