DORIN DEAC
EMBEDDED SOFTWARE ENGINEER

Skills

Skill group

C/C++
Embedded
Systems
Automotive
AUTOSAR
Unit Test

Skill group

Python
MATLAB &
Simulink
Java

Contact

⌂ Cluj-Napoca
✉ dorin.s.deac@gmail.com

Profile

Software Developer for Diagnostic Application Stack for Automotive Radar ECU. Involved in it from the bring-up stage of the project and until its final days. Had the opportunity to be engaged in a HUD ECU project from its roots to the maintenance stage for an ECU. Responsible for the communication layer which intersects with system initialization and automotive diagnostic features. With a text editor and a configured debugger, there is always something to do. Engineering. it ain't much, but it's honest work.

Experience

Embedded Software Engineer
NTT DATA Romania - Present
Advanced Radar Sensor Project
Main activities within Application Diagnostics Component
Input:
Unified Diagnostic Services (ISO 14229-1)
AUTOSAR Diagnostic Communication Manager (DCM)
AUTOSAR Diagnostic Event Manager (DEM)
Original Equipment Manufacturer (OEM) Requirements (Documents and CANdelaStudio diagnostic description [CDD])
ASPICE (Automotive Software Process Improvement Capability dEtermination)
Output:
Software Work Products:
Derived Requirements [DOORS]
Detailed Design
Code (C, SWC Design and BSW Configuration) [Text Editor, DaVinci Configurator]
Unit Test [Google Test]
Functional Test and Features Validation [CANoe RESTBus Simulation; Lauterbach TRACE32 Debugger]
Application Diagnostics:
ECU MetaData - Identification (e.g. VIN, SW Version)
ECU Calibration

Embedded Software Engineer
NTT DATA Romania - 2018 - 2021
Head-up Display (HUD) Project
Owner of Communication Component - OEM Communication Protocol
Involved in the Diagnostics Component (Calibration and other features)
From Proof Of Concept to Start of Production
Integration of Diagnostic Application features within an AUTOSAR Based project
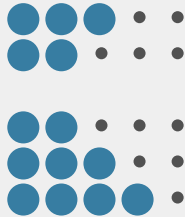Function responsible activities within automotive SDLC for AUTOSAR based project
Embedded SW development and functional testing, altogether with Documentation.
Design and implement based on customer requirements communication protocol for ECU within the Infotainment System

Embedded Software Developer
NTT DATA Romania - 2017 - 2018

Driver Development for Microcontroller Abstraction Layer (MCAL - AUTOSAR) Project - Maintenance
Fix and Maintenance for RamTst module
Perform Unit Test for AR MCAL Modules

Trainee
NTT DATA Romania - 2016

Embedded systems minimal design for HW and SW; Activities: Programming and Testing

Internship
Continental Romania - 2015

Develop and Design GUI for a cluster instrument cross-compiled and launched on a Beagle Bone Black, and Raspberry Pi;

Education

Advanced Process Management
Technical University of Cluj-Napoca, Cluj-Napoca | 2017

Systems Engineering Master Program
Nonlinear and Stochastic System Theory,Robust and Embedded Systems, Optimal Control Theory, Computer Vision
Not graduated

Automation and Applied Informatics
Technical University of Cluj-Napoca, Cluj-Napoca | 2013 - 2017

Systems Engineering Undergraduate Program
Systems and Control Theory, Process Modelling and Simulation, Distributed control systems, Application Oriented Programming Languages, Electronics basics and electronic circuit design