

BIAGIO SCARCIELLO

SOFTWARE ENGINEER

CONTACT

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Via S. Antonio a Capodimonte, 46 80131

SKILLS

- Software Development, TCMS
- Ethernet Networks, Switches and Routers,
- Full Stack Development, Web application deployment
- Real-Time Diagnostic Systems,
- Diagnostic Algorithms, Condition-Based Maintenance (CBM),
- Vehicle Software Integration
- Human-Machine Interface (HMI) Design
- Matlab/Simulink
- Systems Integration and Testing
- System Requirements Analysis
- Programming Languages: C, Python, HTML, JavaScript, jQuery

EDUCATION

MSc. Automation Engineering

University of Naples Federico II

April 2018

Model-Based Prognostic Algorithm for Automotive Components

Vote: 110/110 Cum Laude

BSc. Automation Engineering

University of Naples Federico II

September 2016

Design of a Matlab class for plasma models management in Tokamak

Vote: 107/110

LANGUAGES

Italian 

English 

INTERESTS

Crossfit, Swing, Technology, Graphics

PROFILE

I'm an Automation Engineer with a passion for software development. I began my career working on the development of a Train Control and Monitoring System (TCMS) in the railway sector. During this experience, my interest in full-stack development grew, as I worked on the back-end (written in C) and the front-end (using HTML and JavaScript). This motivated me to begin personal projects to improve my knowledge and expand my skills with new technologies

Today, I work as an On-board System Engineer, where I have acquired new technical skills and explored other levels of the V&V model

WORK EXPERIENCE

On Board System Engineer for Event Recorder System

Hitachi Rail STS S.p.A. Via Argine, 425, 80147 Napoli, NA

2022 - Now

- Design of the Event Recorder system with definition and development of the system architecture and integration into the vehicle
- Writing of technical documentation (SyRS, FRS, FTS) using DOORS
- Definition of measurements and configuration of recording parameters
- Execution of functional tests in the laboratory and on the actual vehicle in accordance with UNI 11750
- Analysis of recorded data according to technical specifications and regulatory requirements (EN 11624, EN 62625-1, IEE1482)
- Support for maintenance and troubleshooting

Diagnostic System Engineer

Hitachi Rail STS S.p.A. Via Argine, 425, 80147 Napoli, NA

2022 - Now

- Development of software for diagnostic and communication systems in railway projects, including Caravaggio (Trenitalia Rock, Ferrovie Nord Milano), Masaccio (Trenitalia Blues), Milano 1, 2, 3 Lines
- Design and development of real-time diagnostic system architectures. Design and implementation of advanced diagnostic algorithms and Condition-Based Maintenance (CBM) solutions
- Development of embedded software and HMI interfaces for train monitors in accordance with customer specifications
- Analysis of system requirements and technical reviews with Trenitalia and Trenord. Vehicle integration and support during testing and commissioning phases

PERSONAL PROJECTS

Gineko Web application for gynecologists designed to efficiently organize and manage patient information, medical records, health status, medical visits, and pregnancy monitoring

Multicon Web application designed for router management equipped with customized firmware that allows the creation of a point-to-point VPN between a client PC and a router

WODbuddy Web application that uses artificial intelligence to analyze an image and identify a personalized workout program allowing users to track their progress over time