**🧾 🎯 Role title: Engineering Consultant - Porsche Macan 2 project  
📍 Location:** ALTEN GmbH, Breitwiesenstr. 19, 70565 Stuttgart, Germany  
📅 Employment Period: Jun 2022 – Jun 2024  
🎥 YouTube Demo: Not available (confidential project)  
📦 GitHub: https://github.com/IvanSicaja/2022.06.01\_GitHub\_Porsche-Macan-2-Project  
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**🏷️** My Personal Profiles: ⬇︎  
🎥 Video Portfolio: To be added  
📦 GitHub Profile: [https://github.com/IvanSicaja](https://github.com/IvanSicaja?utm_source=chatgpt.com)  
🔗 LinkedIn: [https://www.linkedin.com/in/ivan-si%C4%8Daja-832682222](https://www.linkedin.com/in/ivan-si%C4%8Daja-832682222?utm_source=chatgpt.com)  
🎥 YouTube: [https://www.youtube.com/@ivan\_sicaja](https://www.youtube.com/@ivan_sicaja?utm_source=chatgpt.com)  
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### **📚🔍 Project description:** ⬇︎⬇︎⬇︎

### 💡 **Role Description**

Worked as an **Engineering Consultant** at ALTEN GmbH (Jun 2022 – Jun 2024) for the **Porsche Macan 2 Project**.  
The role focused on **software testing, automation development, and process optimization** for Porsche’s next-generation SUV project.

Key responsibilities:

* **Design and implement** automated testing solutions for **DID** and **optical checks** using **Python** with **OpenCV** to improve **efficiency** and **accuracy**.
* **Automate auxiliary tasks**, including **large-scale Excel file editing** and **report generation**, using **Python** with **openpyxl** and **pywin32**.
* **Research and develop** innovative solutions for various types of new challenges, including **Head-Up Display (HUD) software testing**.
* **Create and maintain** software test databases based on Porsche requirements to ensure assigned parts of **Porsche Macan II software** are **production-ready**.
* **Perform testing** of new Porsche Macan II software approximately every two weeks using **simulation testbenches** and **real car drives**.
* **Assemble testbenches** and ensure they are **prepared** for new **software test releases**.
* **Identify, report, and track** software issues using tools such as **CANoe** and **EsoTrace Viewer**.

### ⚠️ **Note**

Due to **confidentiality** and **NDA restrictions**, no **source code** or **internal test files** can be published. This project highlights real-world **automotive software testing** and **automation** experience in collaboration with **Porsche**. Proof documents and certificates of participation can be found in my **CV** and in the **GitHub repository**.

### **🔧 Tech Stack**

Python, Computer Vision, Pandas, Tableau, Microsoft Excel Automation, Linux, TortoiseSVN, CANoe, EsoTrace Viewer,OpenCV, openpyxl, pywin32

### **📣 Hashtags Section**

# #Python #ComputerVision #Automation #SoftwareTesting #QualityAssurance #TestAutomation #Porsche #Pandas #Tableau #ExcelAutomation #CANoe #EsoTraceViewer #Linux #EngineeringConsultant #AutomotiveSoftware #Innovation