



## Ventura

*Software Engineers (Informatica, HBO-ICT specialisatie SE); Technische Informatici (Technische Informatica); Engineering 1 (Elektrotechniek, Werktuigbouwkunde); Engineering 2 (Technische Bedrijfskunde, Toegepaste Wiskunde)*

hr@venturasystems.com for the attention of Mirjam Kip, HR Advisor & Finance

### **Ventura Systems innovative door systems**

Ventura-Systems-Phileas We welcome millions of people every day. Ventura Systems is a manufacturer of innovative door systems for buses, trams, and metro. The company's products are delivered worldwide to many renowned manufacturers of vehicles and rolling stock designed for use in public transport systems.

### **Stage/afstudeeropdracht september 2020 – januari 2021**

1. – Translate door behavior (motion profile) of PSE2 into a formula in order to calculate the optimal PID settings. Determine the sampling frequencies and resolutions of the measuring signals for the new platform.
2. – Perform buckling analyses for complete door systems (PS2E).
3. – Investigation into weight reduction of door leaves. Integration of LED lighting in door leaves, including assessing the impact on the door system control.
4. – Analysis of the door system connectors, fit for purpose, costs, automotive.
5. – Obstruction protection of E-Ramp (electrically powered extendable access ramp for wheelchairs or scooters for the disabled).
6. – Automatic testing for door leaf production.
7. – Research requirements for trolley buses and translate these into a serial test method.
8. – Research glass-heating requirements (watts/meter) and devise a serial test method.
9. Support improvement of Ventura Production Test System (VPTS).
10. Develop a software application that translates cable nail-board data into test point data for VPTS.

11. Develop a software application to replace the current Inventor macros.
12. Investigate how to generate production data for the automation of wiring harness production (pin info for wire data, complete parts list, label list, etc.)
13. Investigate the optimal cabling design software for Ventura to replace ACE.
14. Investigate in-house controlled data storage for Smart Machines project.

## **TASK DESCRIPTION/INTERNSHIP REQUIREMENTS**

Education: informatics, mechanical engineering, electrical engineering, engineering management and business administration.

Level: research university (WO) /university of applied sciences (HBO)

What we expect from interns:

- Assertiveness
- Enthusiasm
- Data-driven mind
- Independent
- Good communication skills
- Flexibility