Lehrstuhl für Sicherheit in der Informatik
Prof. Dr. Claudia Eckert

Fraunhofer AISEC

Announcement: Student job in cooperation with Fraunhofer AISEC, Garching

Augmented and Virtual Reality in Industrial Security

Motivation and Task Description

Technological advances in augmented and virtual reality allows for application of these technologies within industrial settings. The introduction of new technologies also increases the attack surface and may open up new attack vectors.

The scope of this work is the development of a demonstration object in order to understand the scope and impact of these new attacks. For this, a literature review on the field of either AR or VR use cases within industrial ecosystems is to be conducted initially. A design based on the conducted review is sketched and implemented on a AR or VR Kit (Epson Moverio or Oculus Go respectively). A documentation of all steps is required.

Requirements

- Knowledge on hardware/software architecture, programming, and IT security
- Systematic and structured approach to research and development
- Knowledge/experience on theoretical foundations in AR/VR is beneficial
- Independent and goal-oriented working attitude

Contact

Please apply to all contacts listed below. Make sure to include your CV and a current grade report in your email.

Alexander Giehl, Sven Plaga
Telefon: +49 89 322-9986-{189, 117}
E-Mail: {alexander.giehl, sven.plaga}@aisec.fraunhofer.de

Fraunhofer Research Institution for Applied and Integrated Security (AISEC)
Department Product Protection & Industrial Security
Lichtenbergstraße 11, 85748 Garching (near Munich), Germany
https://www.aisec.fraunhofer.de