



Student internship (5-6 months) – Software engineer

City-wide 3D mesh simplification

Company

Part of the ENGIE group, SIRADEL develops « Smart Cities » software, including its unique ability to produce 3D models of cities, its RF design services, and its wireless networks and urban projects planning and optimization services.

An end of study internship position is available in the software engineering team, which is responsible for designing, implementing and maintaining software solutions at SIRADEL. **This internship may lead to a permanent position as a software engineer.**

Context

This internship fits within the development of our Smart Cities 3D visualization platform.

Description

The goal of this internship is to develop simplification algorithms for 3D objects able to generate level of details for an entire city suitable for real-time rendering while preserving a decent rendering quality.

The first part will be focused purely on mesh geometry simplification.

As a second step, texturing will be added as a constraint.





Technical environment

- C++, OpenGL

Recommended prerequisites

- Linear algebra, graphs
- 3D objects representation
- Basic notions on optimization

Profile

This internship suits an autonomous software engineering student, with a solid knowledge of software development and willing to become involved in a high tech domain such as information and communication technologies.

It will suit a student interested in applied mathematics and real-time rendering particularly well.

Duration : 5 to 6 months. From February 2019.

Location : Rennes, France

Contacts

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Référence : SE-19-04