

Product Manager for openPASS

The Eclipse Foundation, on behalf of the openPASS EWG, is looking for a contractor/independent for the release- and lifecycle management.

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Description of openPASS

Eclipse sim@openPASS provides a software platform that enables the simulation of traffic situations to predict the real-world effectiveness of advanced driver assistance systems or automated driving functions.

Safety relevant aspects of traffic, such as infrastructural elements or behavioral characteristics, are investigated with this platform. The platform is able to run entirely flexible multi-agent simulations which include stochastic variations as well as reproducibility. The flexibility is achieved by outsourcing to dynamic libraries (so called modules) all models defining the traffic scenario or behavior of traffic participants. Additionally to the platform, demonstrator modules are provided, which comprise simple traffic situations and behaviors of traffic participants as well as a collision model to answer basic research questions. Furthermore, demonstrator applications will be given to post process the simulation results. sim@openPASS users are able to incorporate their own developed modules and post processing applications; this allows them to answer a wide variety of their specific research questions. These questions are related to development, testing, and rating of vehicle functions.

Possible users can be automotive OEMs, suppliers, public transport authorities, consumer protection organizations, insurance companies, academia, and legislation.

The platform is compatible with standards such as OpenDrive, OpenScenario and FMI. This project is part of the Eclipse Working Group openPASS. More information is available at <https://projects.eclipse.org/proposals/simopenpass> and <https://wiki.eclipse.org/OpenPASS-WG>.

Task Description:

The Product Manager represents the interests of the openPASS steering committee as the product owner of openPASS:

- Support the committees and their services.
- Suggest the development focus for future major releases from the technical point of view.
- Collect epics from the teams and generate backlog for the upcoming major release.
- Break down the initial release in sub-sequential milestone releases and propose the current milestone release in agreement with AC.
- Moderate backlog review and backlog refinement.
- Maintain the backlog.
- Update the milestone release backlog with dependencies and timeline to resolve conflicts.
- Moderate the estimation poker.
- Update the milestone release backlog with the assigned developers or members.
- Exchange with developers regarding the progress and track the current development status as well as available functionalities.
- Make periodical status reports to the AC (particularly about risks/delays...).
- Ensure that the documentation is complete.
- Coordinate the legal checks (especially violence of intellectual property of third party), merging, testing and releasing to ensure the software build and deployment (test status, buildability, executability...) for milestone and major releases.
- Establish quality standards for the whole tool.
- Push the reuse of components and prevent monolithic development in big granularity.
- Update and maintain the openPASS-websites, wikis, issue tracking systems.
- Organize regular (3-4 times / year) events (workshops, hackathons, webinars etc.) to inform the EWG and furthermore the Eclipse members about the existing features and artifacts within openPASS, including live demonstrations.

Soft-Skill Requirements:

- Communication and moderation skills
- Mediation skills
- Conscientiousness
- Ability for foresighted planning
- Quality and customer orientation
- Independent and well-structured working style
- Assertiveness (friendly but determined)
- Professional proficiency of the English language, German language knowledge is a bonus

Specific Requirements

- Sound knowledge about programming (in particular C++).
- Competence in target-oriented project control.
- Experience with (software) project management.
- Experience with agile development (Kanban, Scrum, Tuleap).
- Knowledge about Continuous Integration (CI) process.
- Practical experience with openSource projects.

Further Conditions

All topics shall be managed visible to the whole community. The work results have to be published on the openPASS EWG's public infrastructure. All changes and decisions to be confirmed by the openPASS EWG's steering committee.

The position is available now. Offers should be calculated to 100 days/year, excluding travel expenses. Please send your offers to [ralph\(dot\)Mueller\(at\)eclipse\(dot\)org](mailto:ralph(dot)Mueller(at)eclipse(dot)org).