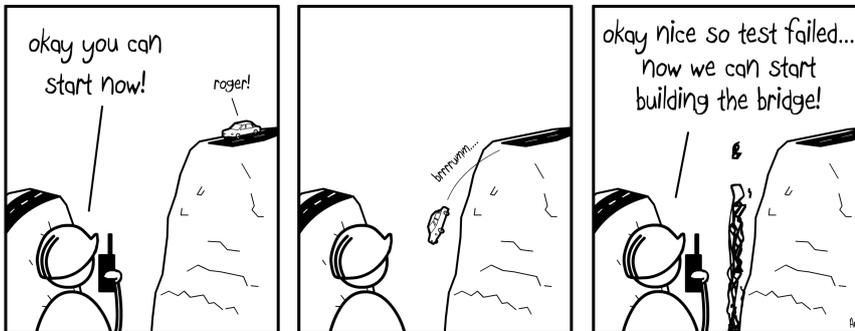


Student Research Assistant

Software Test Developer



Test-driven development (source: <https://www.icemobile.com/test-driven-development>)

The Institute of Measurement Control Systems lead by Prof. Dr.-Ing C. Stiller has been focusing on self-driving cars for over 15 years and is highly reputed for its contributions in this field. Over the last decade there has been profound development in this field, but there are still quite a lot open research questions that need to be tackled.

The proposed student research assistantship position focuses on developing tests for various packages used in automated driving. The packages already exist, but elementary tests that increase the code coverage needs to be thought and implemented. Packages are either written in C++ or in Python, and hence require proficiency in testing libraries of both languages. In addition to the test cases, the assistant should implement some logging outputs as well.

The student should ideally:

- + knows the methodology of test driven development
- + has experience with one of the unit testing libraries:
Google-Test, unittest, hypothesis.
- + has experience with logger:
Google-Logger.

I am happy to answer any questions you might have. Feel free to ask for an appointment. Please attach a brief Résumé and your transcript of records while asking for an appointment!

Some additional information: it is not problem, if you are inexperienced with some of the topics listed above, as long as you are willing to learn these. You can apply and take a multitude of my job postings. Working hours are very flexible: you can specify how many hours you would like to work and when to work. Upon completion of the assistantship, it is possible to start a master's thesis that is related to the student job, in case you are enrolled in School of Informatics or School of Mechanical Engineering (for students of electrical engineering this might be possible as well). If you do not receive a response to your application within one week, you can regard this as a refusal.

Institute of Measurement
and Control Systems (MRT)
Prof. Dr.-Ing. Christoph Stiller

Advisor:

Ö. Sahin Tas, M.Sc.

Programming language(s)¹:

C++ proficient
Python advanced

System, Framework(s):

Linux, Git

Required skills:

- Work on your own

Language(s):

German, English

For more information please contact:

Ömer Sahin Tas

Web: bit.ly/2xFkiWZ
Phone: +49 721 9654-262
Email: sahin.tas@kit.edu

Or directly send in your application including your current grades as well as our questionnaire!



¹ skill levels:

beginner < 500 lines of code (LOC)
advanced 500 – 5000 LOC
proficient > 5000 LOC