



**100% Teamwork****0% Lone Wolf**

## Thesis | Survey and benchmarking on fault density in software

 Stuttgart, Karlsruhe, Regensburg, München, Chemnitz

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There is no fault free software, even if we thrive for it. One way to measure our achievements could be to evaluate the fault density of our software and compare it to other available data. This is especially relevant if the software is intended to be used in safety- and security-related environments or is absolutely mission critical – as Vector's AUTOSAR software is. There is plenty of scientific research just waiting to be used for a benchmark and evaluate the bar that our products have to meet in future.

### Your tasks:

- > Literature research
- > Analysis of Vector's issue database
- > Evaluation, comparison, and benchmarking of different sources for fault densities

### Your profile:

- > You study computer science, software engineering, electrical engineering or a similar discipline
- > You are familiar with at least one programming language
- > You have experience in statistics
- > Good German and English language skills

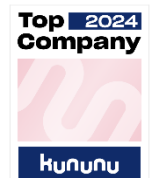
### Benefits:

Why is Vector among the best employers in Germany? Because we put a lot of effort into making sure work doesn't feel like work. This includes support for your professional and personal development, work on real projects with extensive supervision, and a state-of-the-art, ergonomic workplace. We also support you by providing a lunch allowance, free drinks, a variety of sports groups, and much more. All this contributes to ensuring you have a strong sense of well-being at Vector.

### Who we are.

Vector is the premium partner for development of embedded electronics. For almost 30 years, we have worked with our customers to develop electronic innovations for the automotive industry and related sectors.

Vector has more than 4,000 employees worldwide at 31 locations engaged in something new every day to make the technologies of tomorrow ready for series production.



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