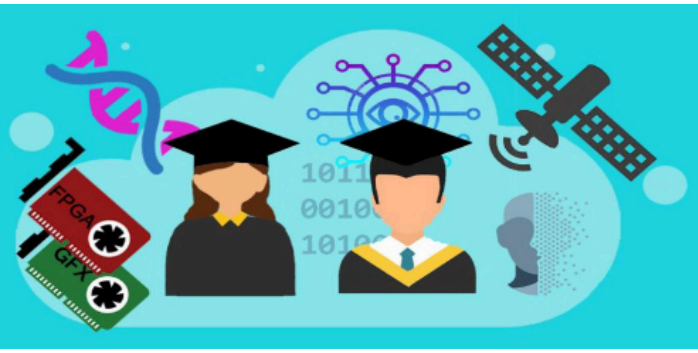
Diploma Thesis

Microproccessors and Digital Systems Laboratory



The Systems Programming One

Rust is a promising programming language with increasing adoption in a variety of domains. It emphasizes safety, performance and correctness of software along with control over what the hardware does.

Students undertaking this thesis will work in three phases:

- ***Learning Rust*** (2-3 months) → we will go through two books: (i) **the** Book and (ii) Programming Rust
- ***Studying a Rust codebase*** (1-2 months) → you can select any project you like. There are operating systems, deep learning frameworks, blockchain platforms ... choose your poison[1]
- ***Designing your Baby*** (2-3 months) → at this point you will narrow your (certainly many!) project choices down to one, read the related literature, and come up with what you'll implement
- ***Endgame*** (2-3 months) → do your experiments, write your thesis, publish your code, start your next job search from a position of power

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[1] You *could,* for instance, choose the Rust ecosystem itself as your target! Or you could give some work of our own a go.