

DEPARTMENT OF INFORMATICS

TECHNISCHE UNIVERSITÄT MÜNCHEN

Bachelor's Thesis in Informatics

**Thesis title**

Lukas Heddendorp

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**Titel der Abschlussarbeit**

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Submission Date:	Submission date

I confirm that this bachelor's thesis in informatics is my own work and I have documented all sources and material used.

Munich, Submission date

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## Acknowledgments

# Abstract

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# 1 Introduction

## **2 Background**

### **2.1 WebAssembly**

#### **2.1.1 WebAssembly for IoT**

### **2.2 Microcontrollers**

#### **2.2.1 ESP32**

### **2.3 Interpreters**

### **2.4 Microbenchmarking**



### **3 Survey of existing WebAssembly runtimes**

## **4 Evaluation of suitable WebAssembly runtimes**

## 5 Conclusion

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