

# **Mastering the game of Abalone using deep reinforcement-learning and self-play**

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### **Declaration of authorship**

I hereby declare that I have written this thesis independently without any help from others and without the use of documents or aids other than those stated. I have mentioned all used sources and cited them correctly according to established academic citation rules.

Hannover, November 1, 2021

Signature

# Contents

- 0.1 System architecture . . . . . 5
  - 0.1.1 Training framework . . . . . 5

# List of Figures

# List of Tables

## 0.1 System architecture

### 0.1.1 Training framework

As there are existing frameworks that have implemented the system described in the AlphaZero paper in a more general and adaptable fashion, it has to be considered building on their foundation.