

TIANCHEN WANG

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EDUCATION

Kyoto University

Master of Informatics in Computer Science

Kyoto. Japan

Expected Mar.2024

Beijing Information Science & Technology University

Bachelor of Engineering in Automation

Beijing. China

Sept.2016 - Jun.2020

PROJECTS

Gogee

A Web Framework by Golang

- Construct dynamic routes with Trie trees, and control route by group.
- Use the context to encapsulate the request and response, providing support for response types such as JSON & HTML.
- Design and implement middlewares for web frameworks.
- Implement static resource services and panic recovery mechanism.

GoTOTP

A TOTP(Time Based One-time Password by RFC6328) Library Written by Golang

- Calculate HOTP(HMAC One-time Password) value by using HMAC-SHA-1 function.
- Calculate the TOTP value using the HOTP value.
- The designed library can choose the HMAC-SHA512 function and offer a 10-bits TOTP password.

The Robust Fault-tolerant Control of Quad-rotor Aircraft

National Science and Technology Innovation Program for College Students

- Design a double loops controller.
- Construct an inner-loop controller based on robust fault-tolerant control to control the attitude of the quad-rotor aircraft.
- Construct an external-loop controller based on PID control to control the position of the quad-rotor aircraft.
- Simulate the double loops controller by MATLAB.

SKILLS

Language & Frameworks

Go, Java, Python, Gin, HTML, SQL, MATLAB

Development & Tools

MySQL, Git

Amazon Web Services

IAM, EC2, ELB, S3, RDS

PUBLICATION

Observer-based Robust Control of Quad-rotor Aircraft Systems

Jan. 2020

Robust Stability Control Research of Quad-rotor Aircraft

Nov. 2018

COURSEWORK

Database, Information Retrieval, Interaction Design, Machine Learning, Artificial Intelligence