

devfest
2022

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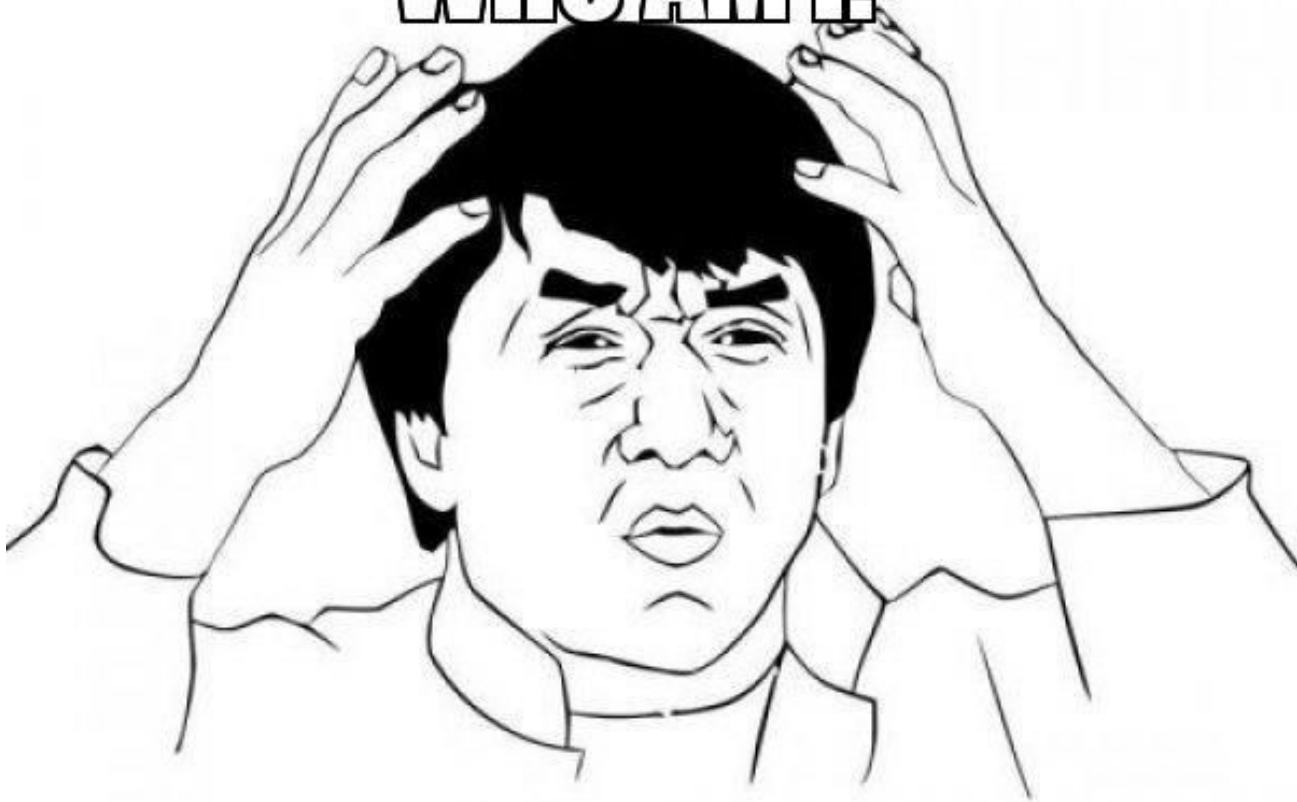
Controlling Holonomic and Omnidirectional Robots Using Android

 Google Developer Groups
Nyeri



Osodo Rodney
Mechatronics Engineering Student

WHO AM I?



- Student
- TikToker
- Youtuber
- Writer
- Hobbyist

rodneyosodo.com





Tik Tok



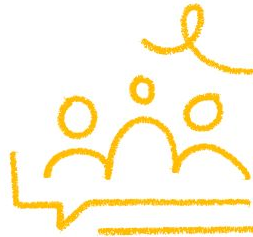
OUTLINE

- Definition
- Why this robot?
- Omicron
- Flutter App
- Demos
- Questions

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Controlling Holonomic and Omnidirectional Robots Using Android



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Control



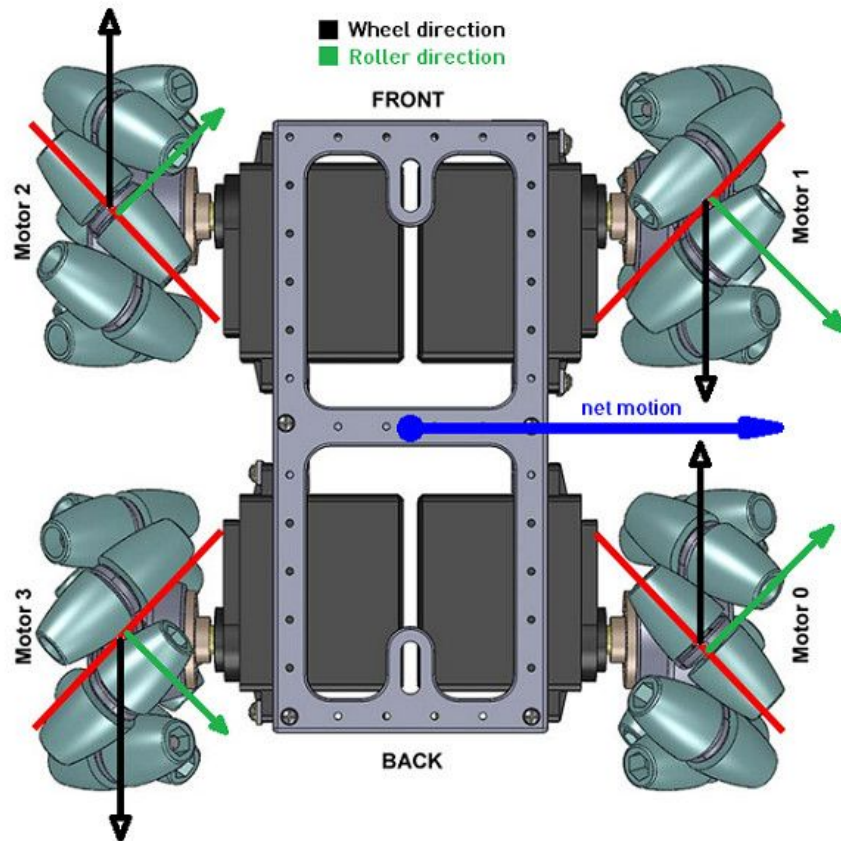
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Caster Wheel



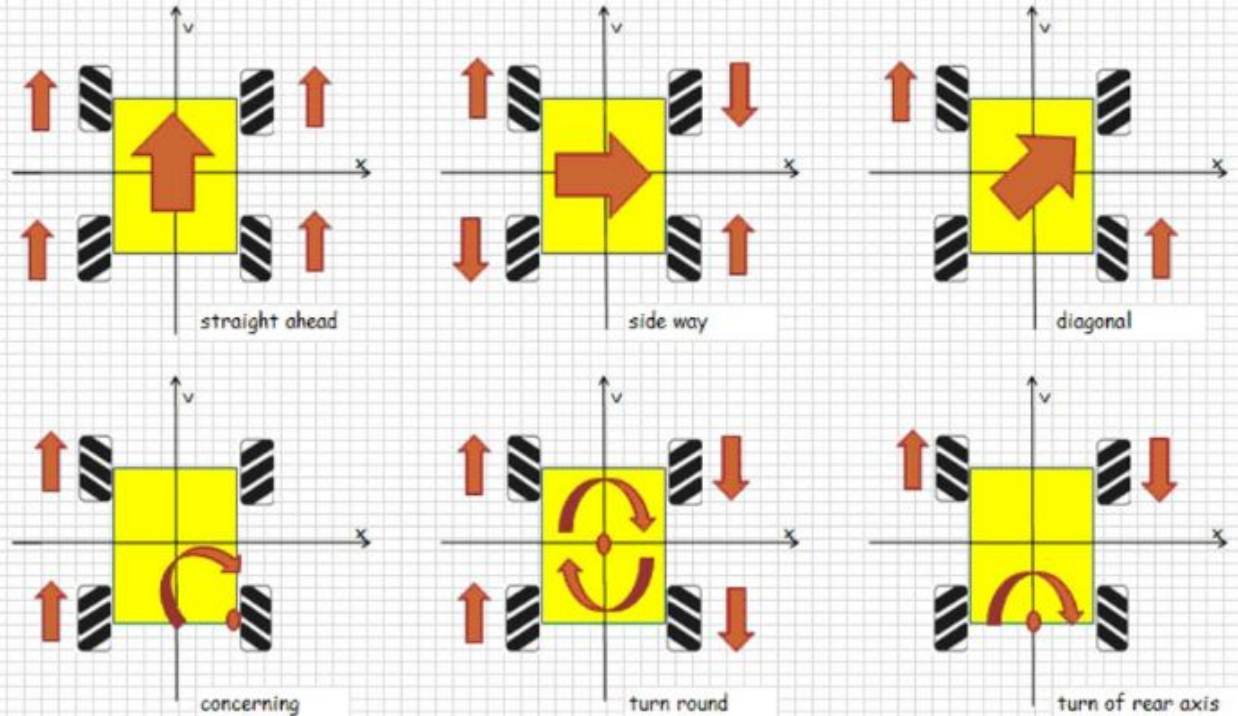
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Holonomic motion



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Omnidirectional Motion





**NOT SURE IF I CANT
UNDERSTAND**

**OR ITS NOT
UNDERSTANDABLE**

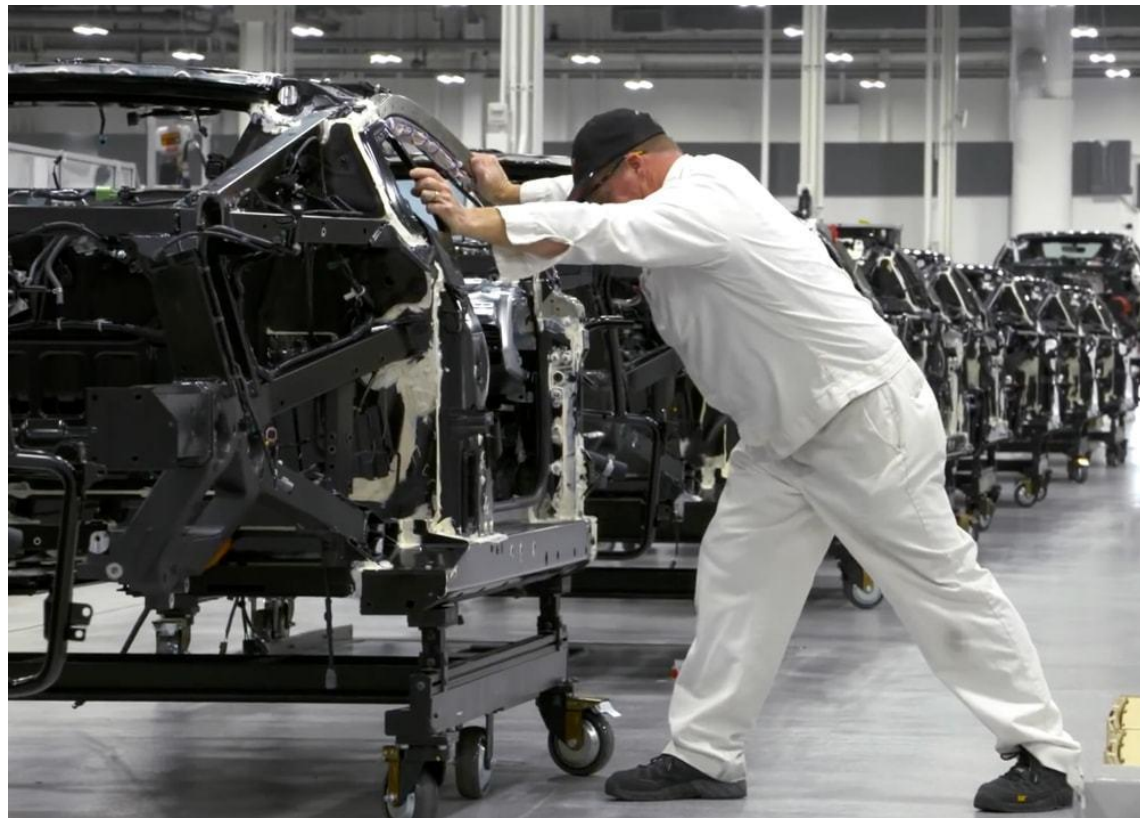
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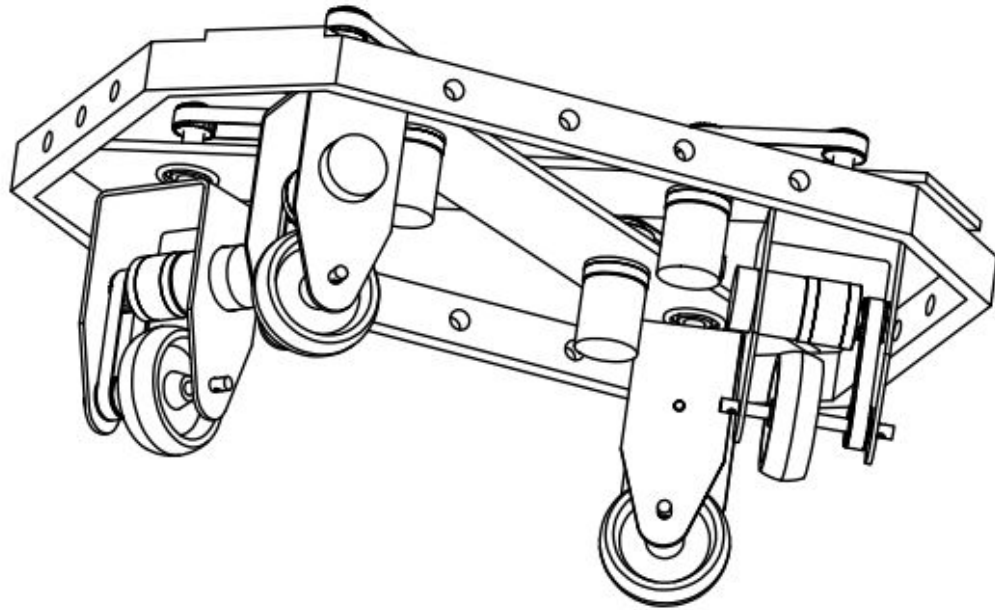

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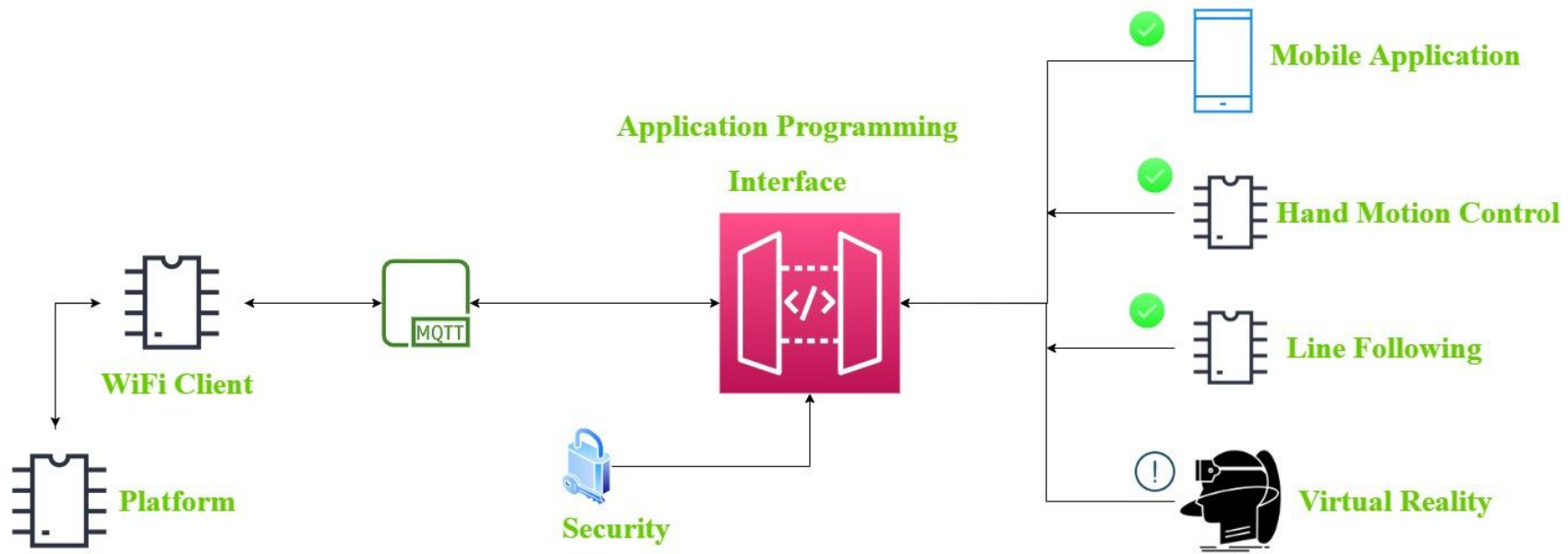
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10:31



Welcome to Omicron

Protocol

http

Endpoint

http://omicron.rodneynosodo.com/api

Setup

[Guide?](#)

[Privacy](#)

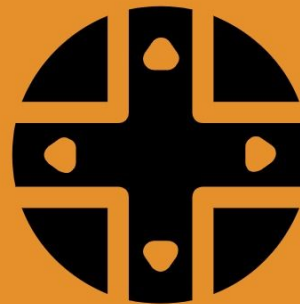
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START

STOP

REPLAY

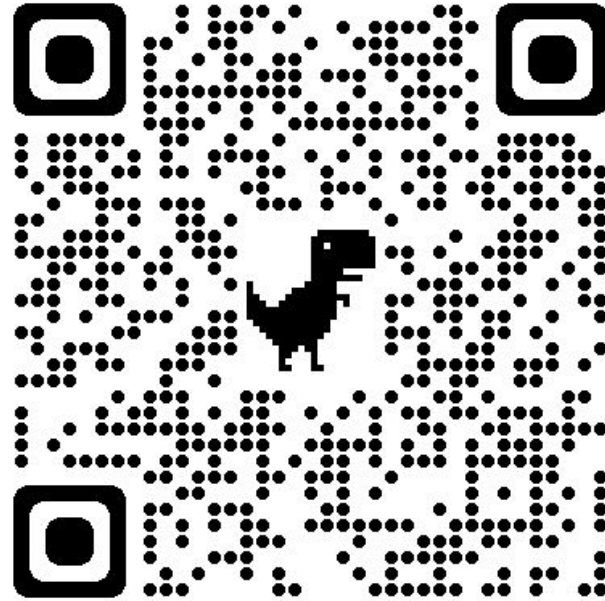


01/10



Robots Assemble

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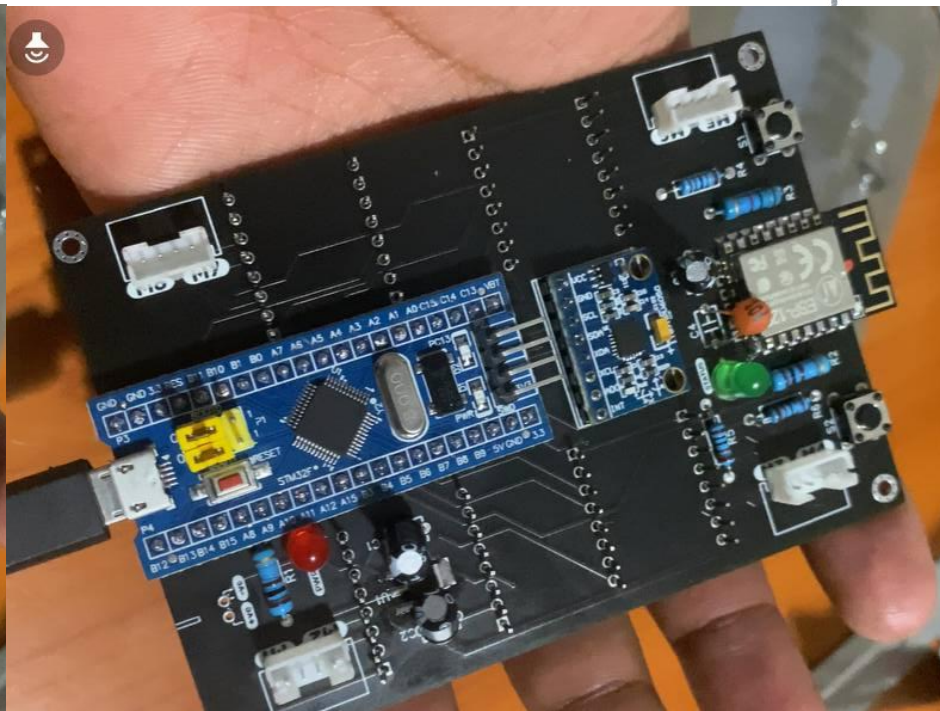
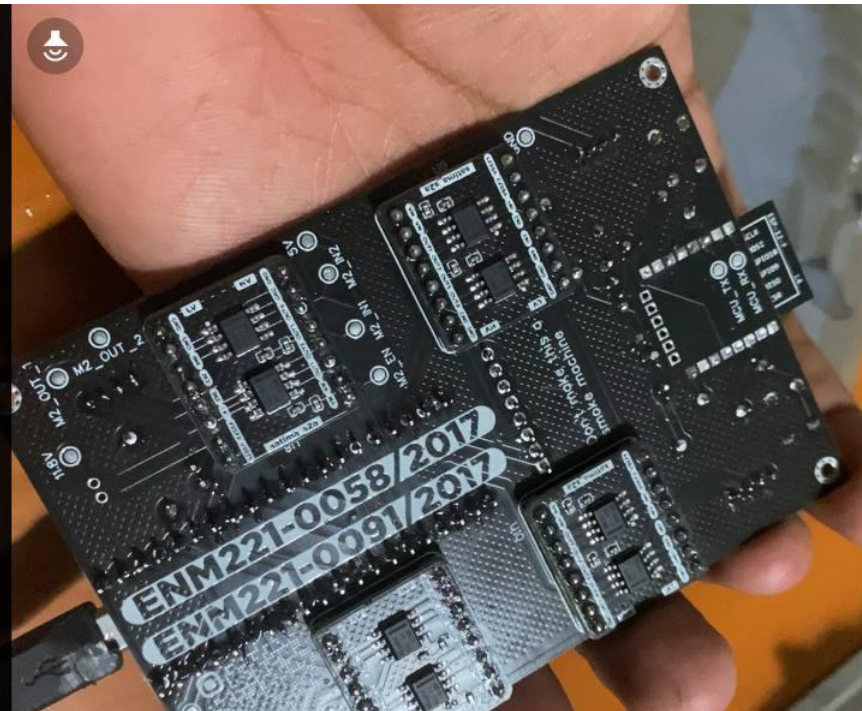


<https://github.com/omicronrobot/flutterApp> . . .

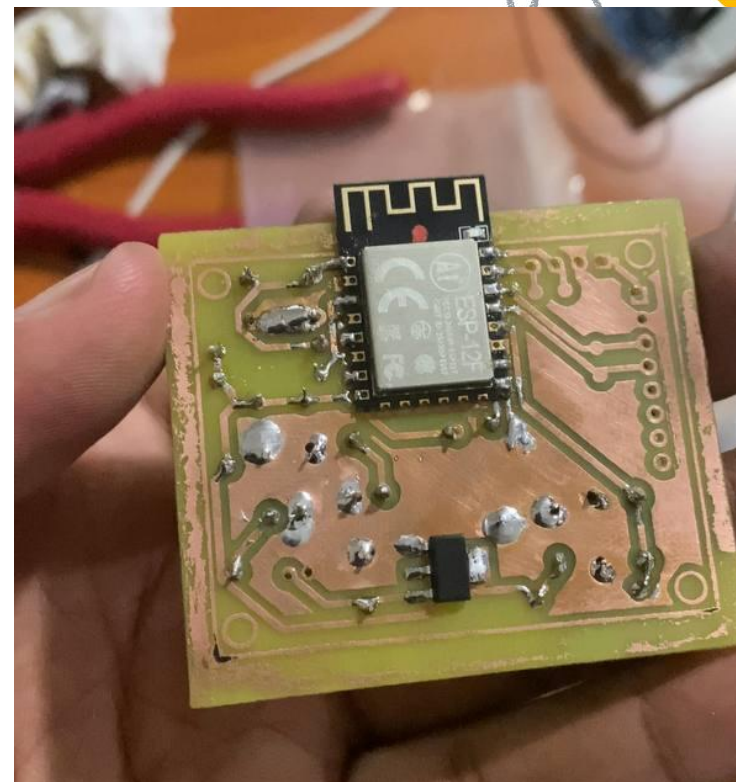
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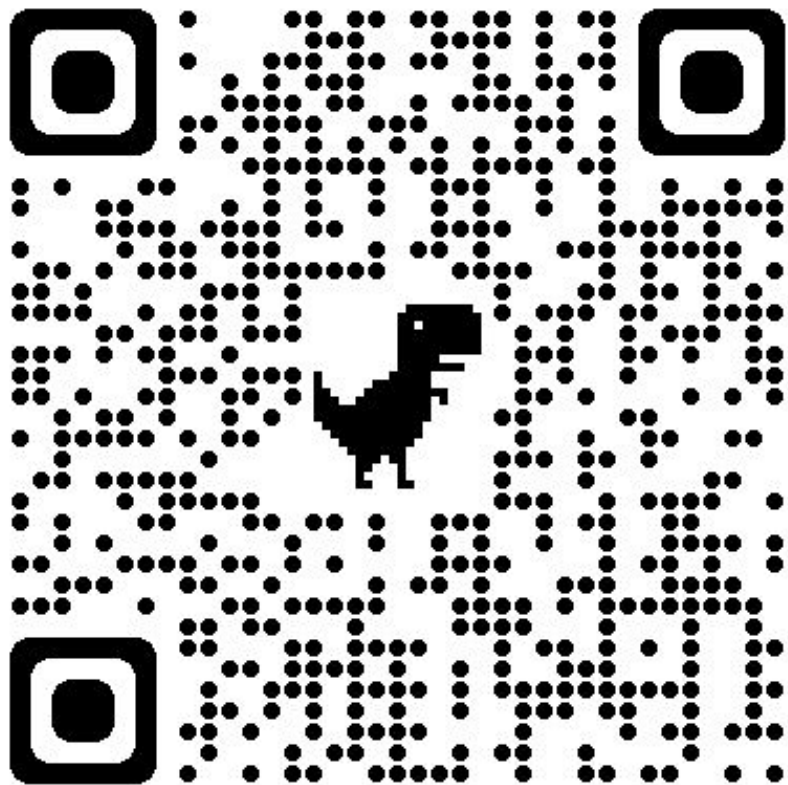
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“I don’t know anything about life, but I know
something about Holonomic and
Omnidirectional Robots.”

Rodney Osodo



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THANK YOU FOR LISTENING

QUESTIONS ?