TONY ROBOTICS

RoboWare

Make Creating Robots Easier

A Product Oriented Design IDE for ROS Developers

ROS Conference

CANADA VANCOUVER | 2017.9

Content

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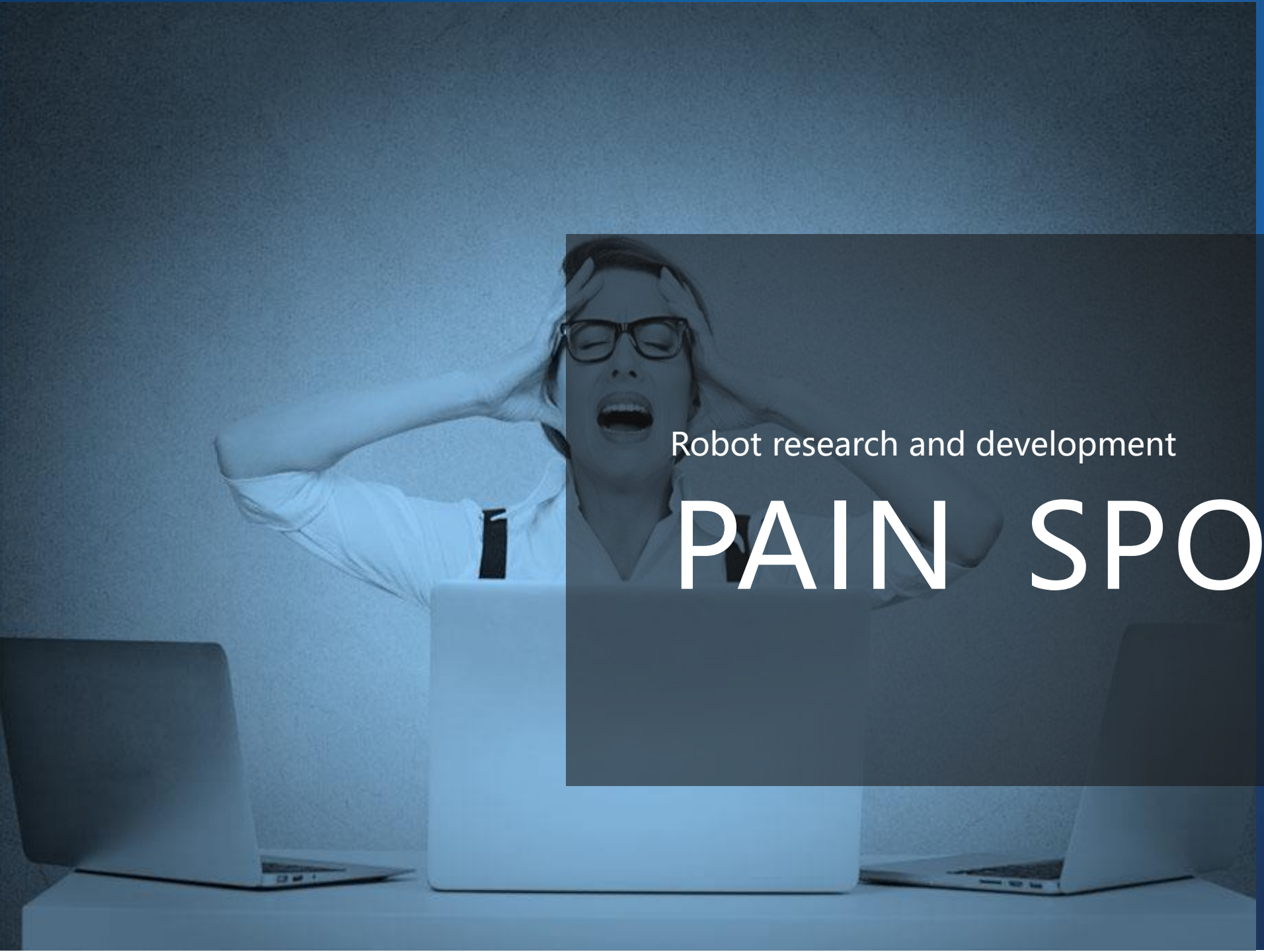

Robot research and development

PAIN SPOTS

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Pain spots of design and development

PAIN SPOTS

- Who can give me a design tool ?
- Who can give me tool to develop ROS ?
- Who can help me make GUI ?
- Who can help me select components ?

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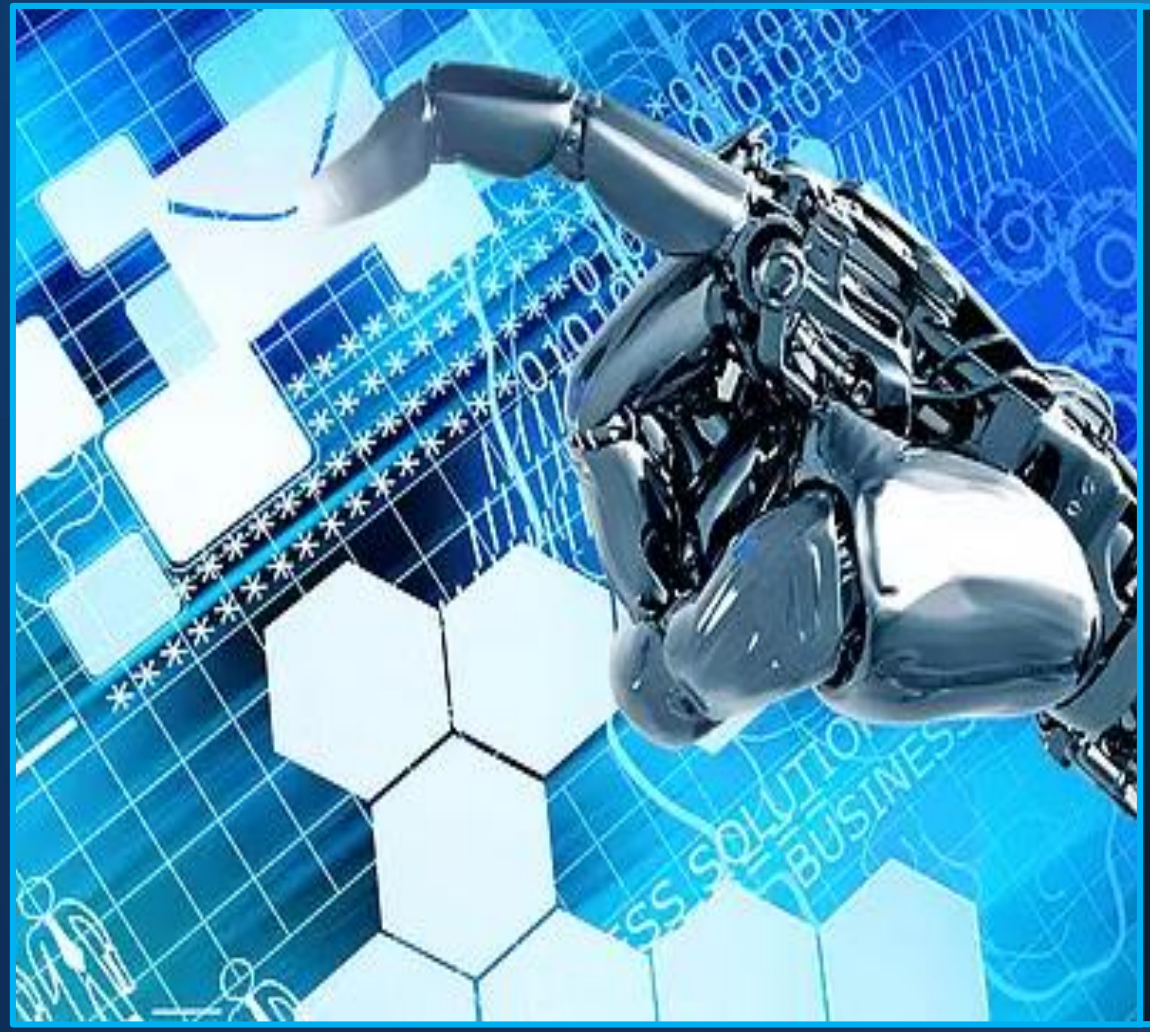
Pain spots of design and development



PAIN SPOTS

- Who can give me a design tool ?
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- Who can help me make GUI ?
- Who can help me select components?

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Pain spots of design and development

01

Age of Internet

Platform：Win, Linux, Mac

Tech：Java、C#、PHP

Tool：Eclipse, VS Studio, ...

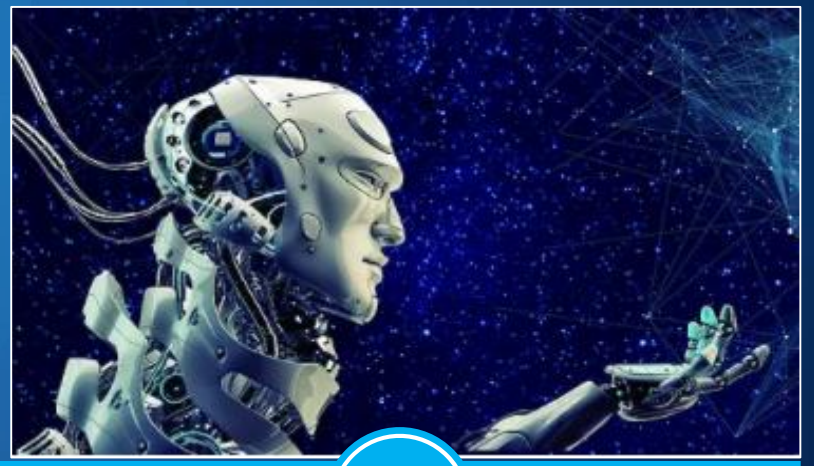
02

Age of mobile Internet

Platform： Android， iOS

Tech：Java、Obj-C

Tool：Android Studio，Xcode



03

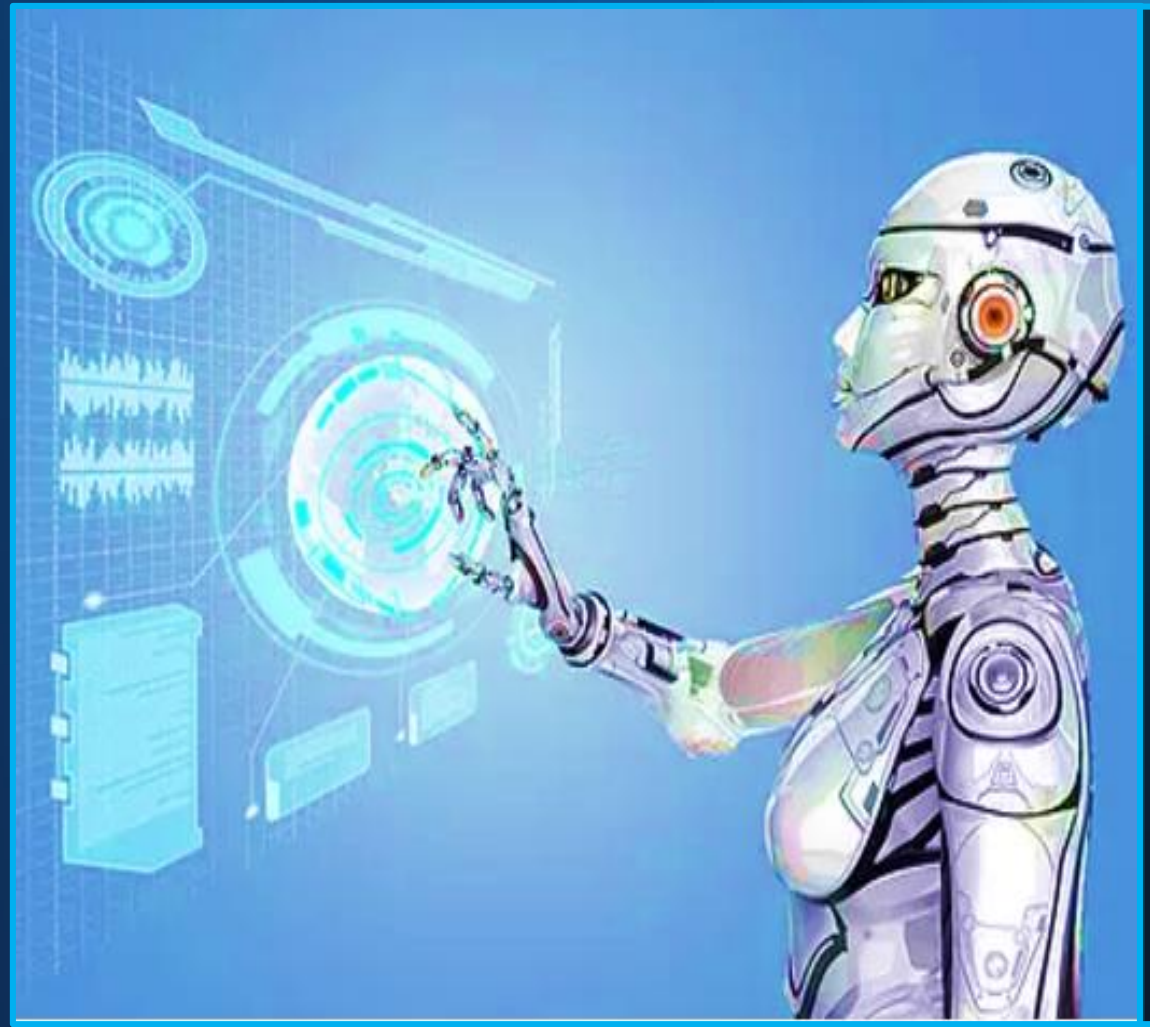
Age of robots

Platform: Linux

Tech：ROS

Tool：None

Pain spots of design and development



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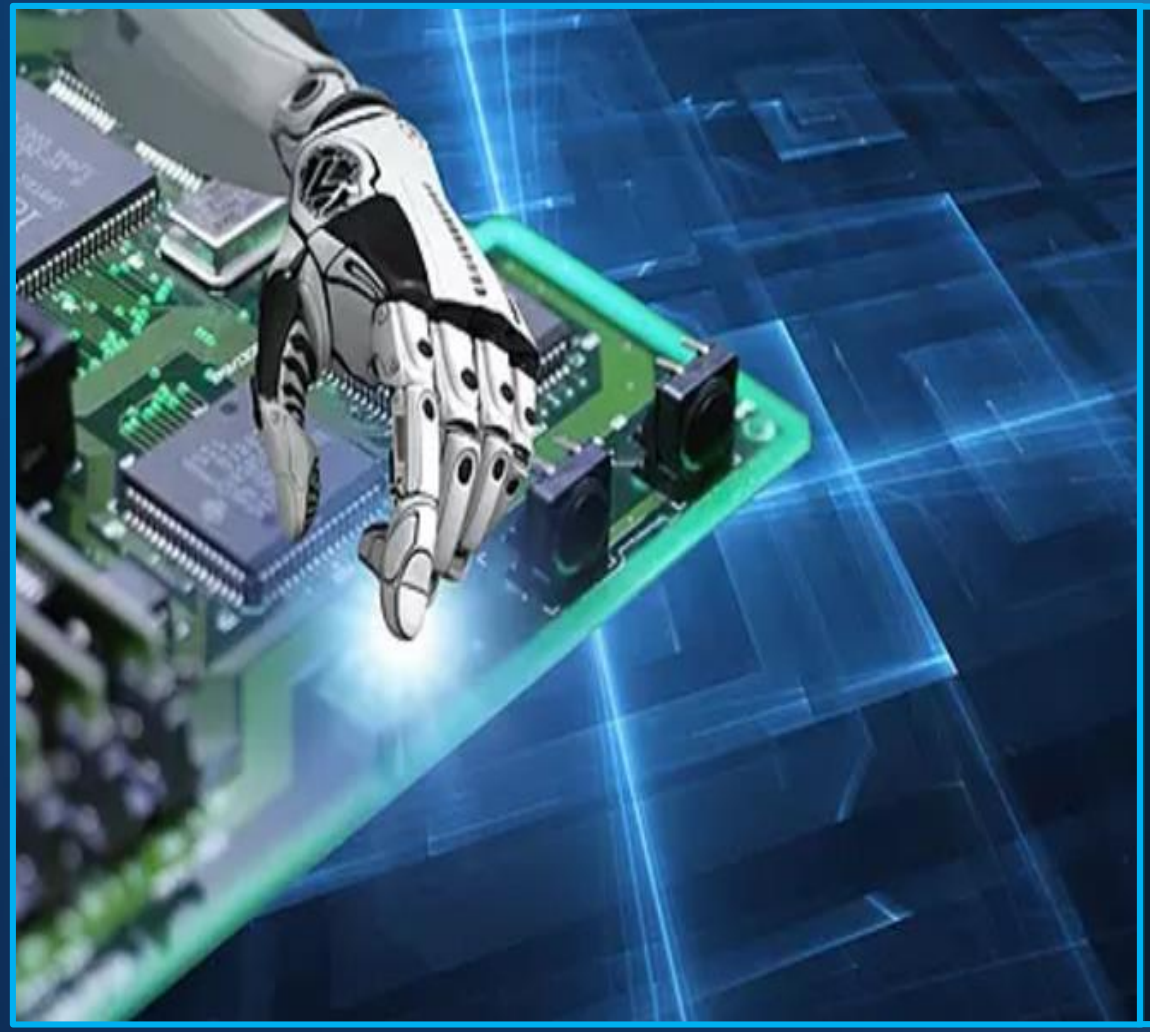
Pain spots of design and development



PAIN SPOTS

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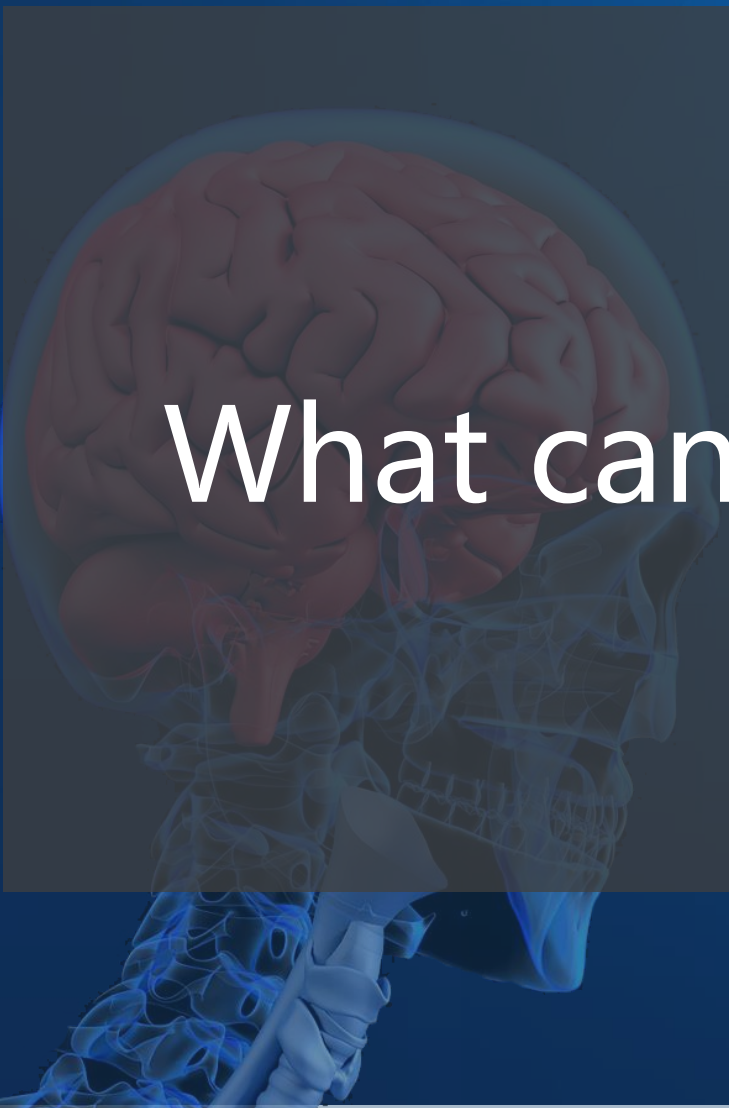
What can help us develop robots?



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Robot development IDE based on ROS

RoboWare

Make creating robots easier

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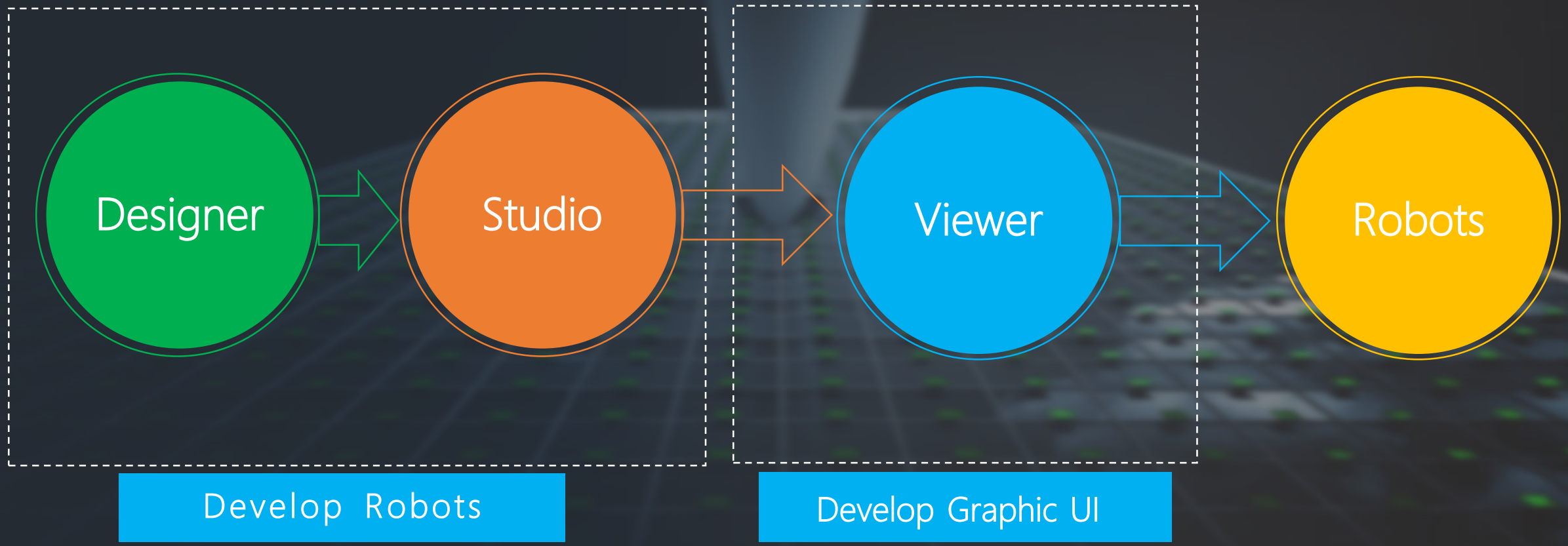
New Concept: POD Product Oriented Design



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The Value of Designer

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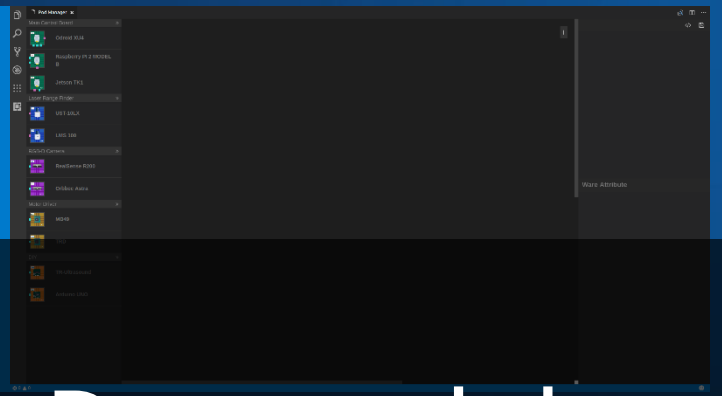
What is Designer?

1



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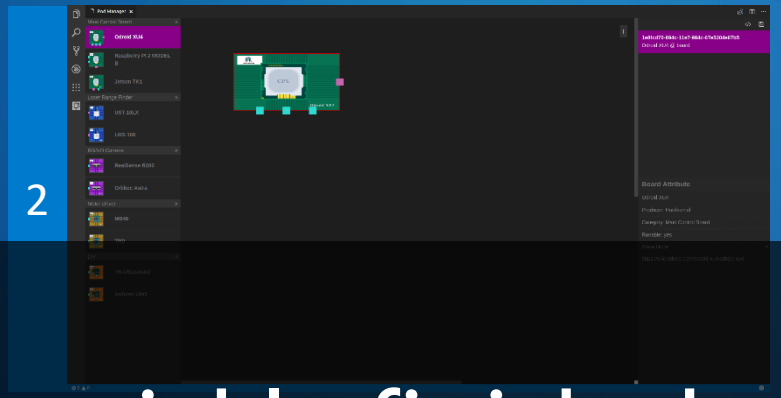

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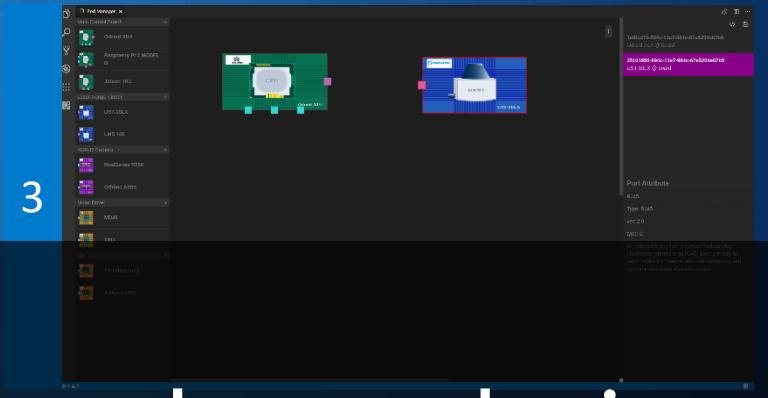
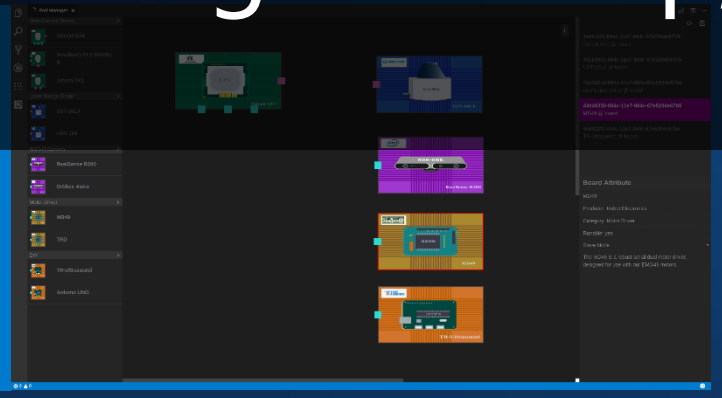
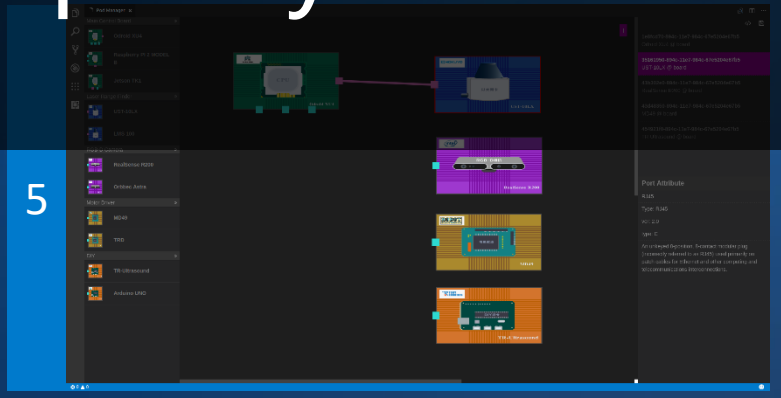


Drag and drop, quickly finish the hardware design

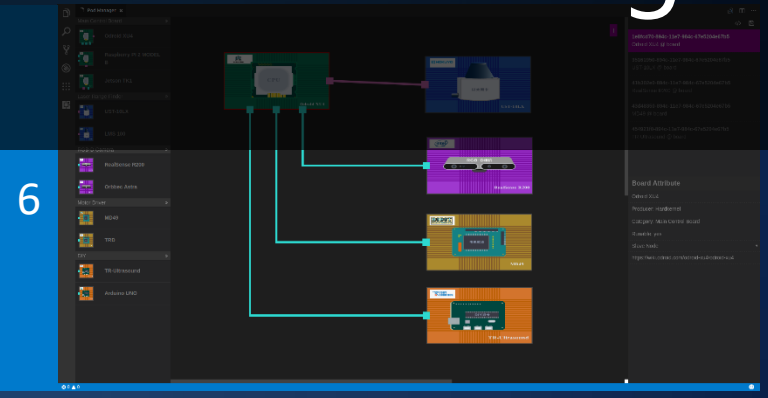
4



5



6



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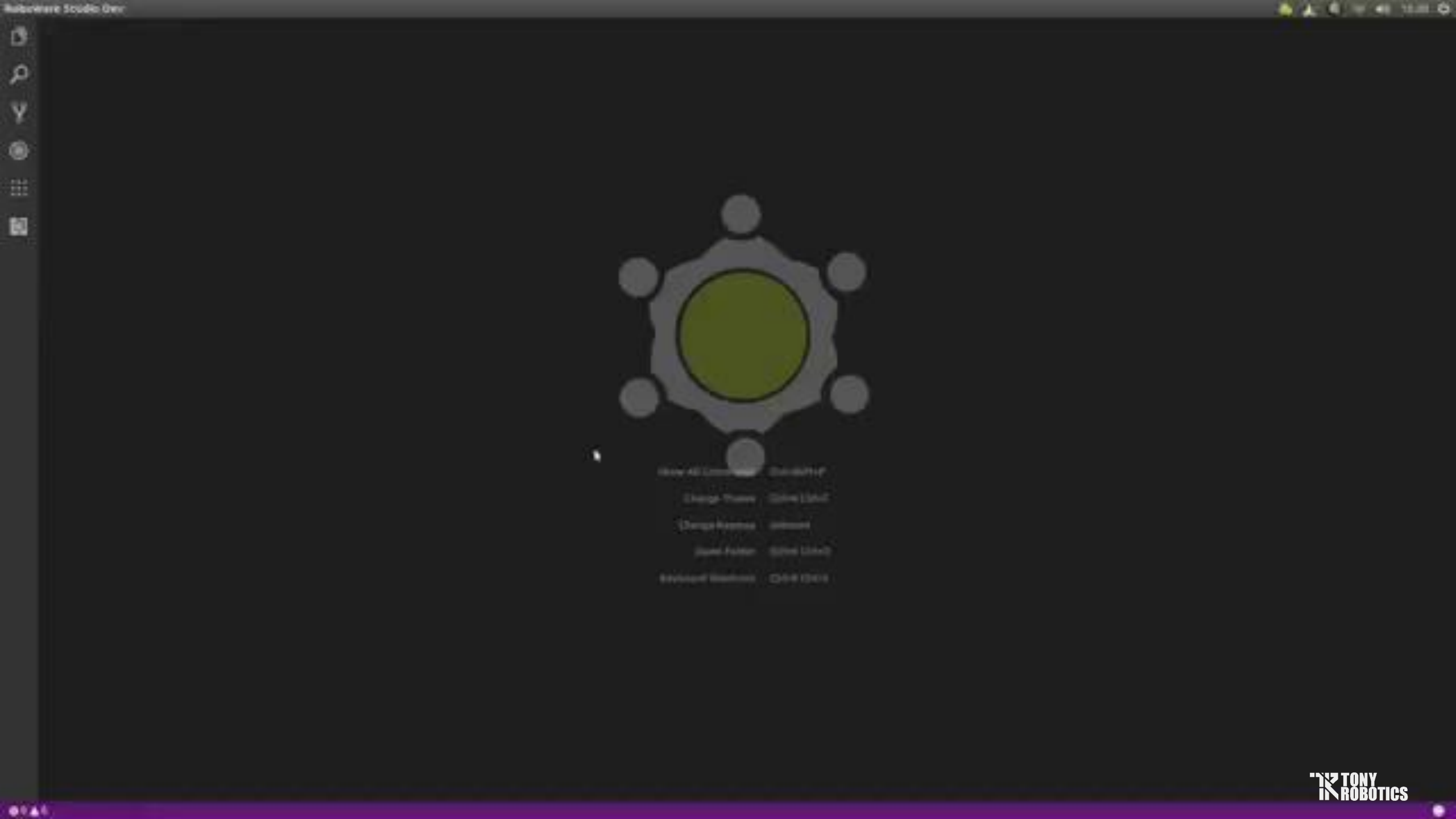
Designer features

Port checking

Hardware selection

Launch
generate file

ROS package
auto downloading


Robowave Studio Dev
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We are doing...

We are adding some common hardware components, and your contribution will make a big difference.

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The Value of Studio

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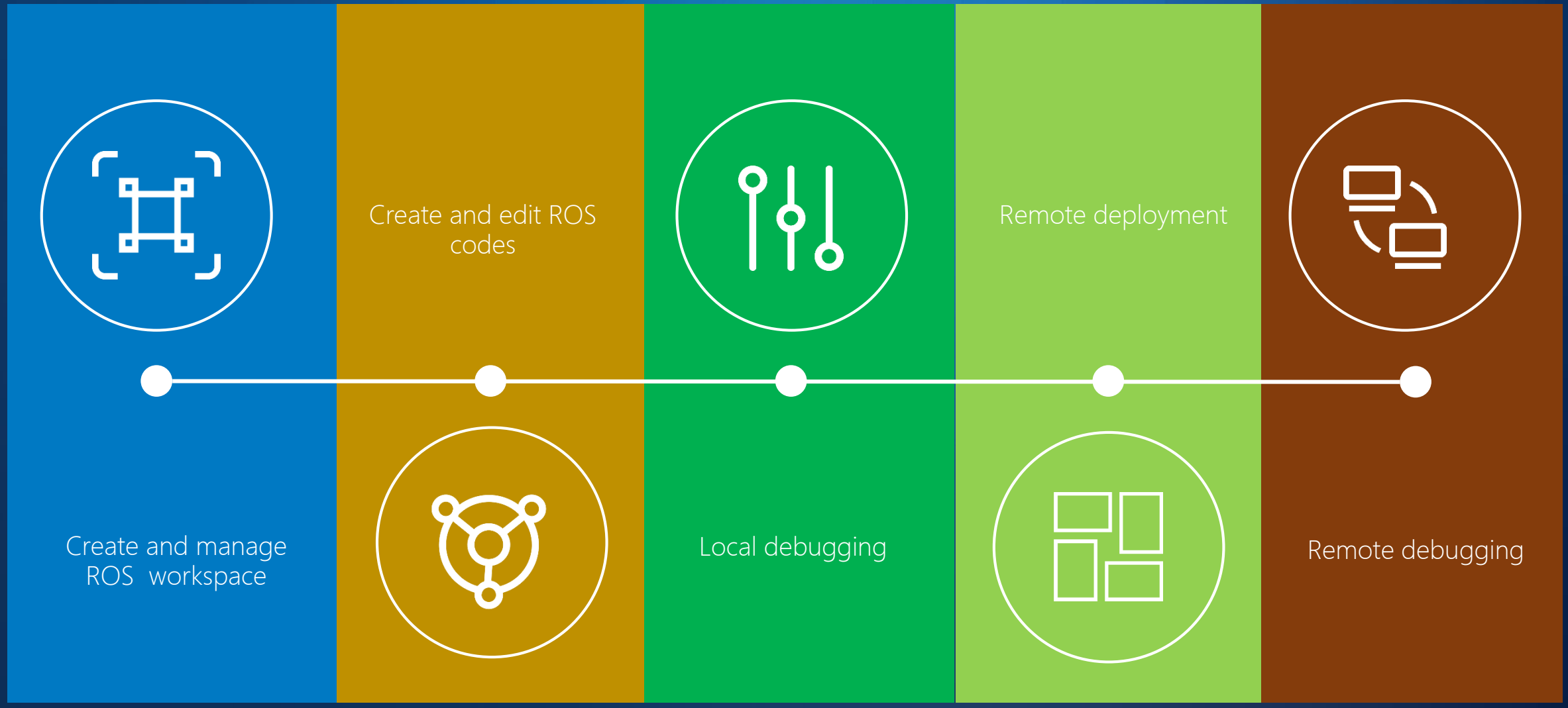
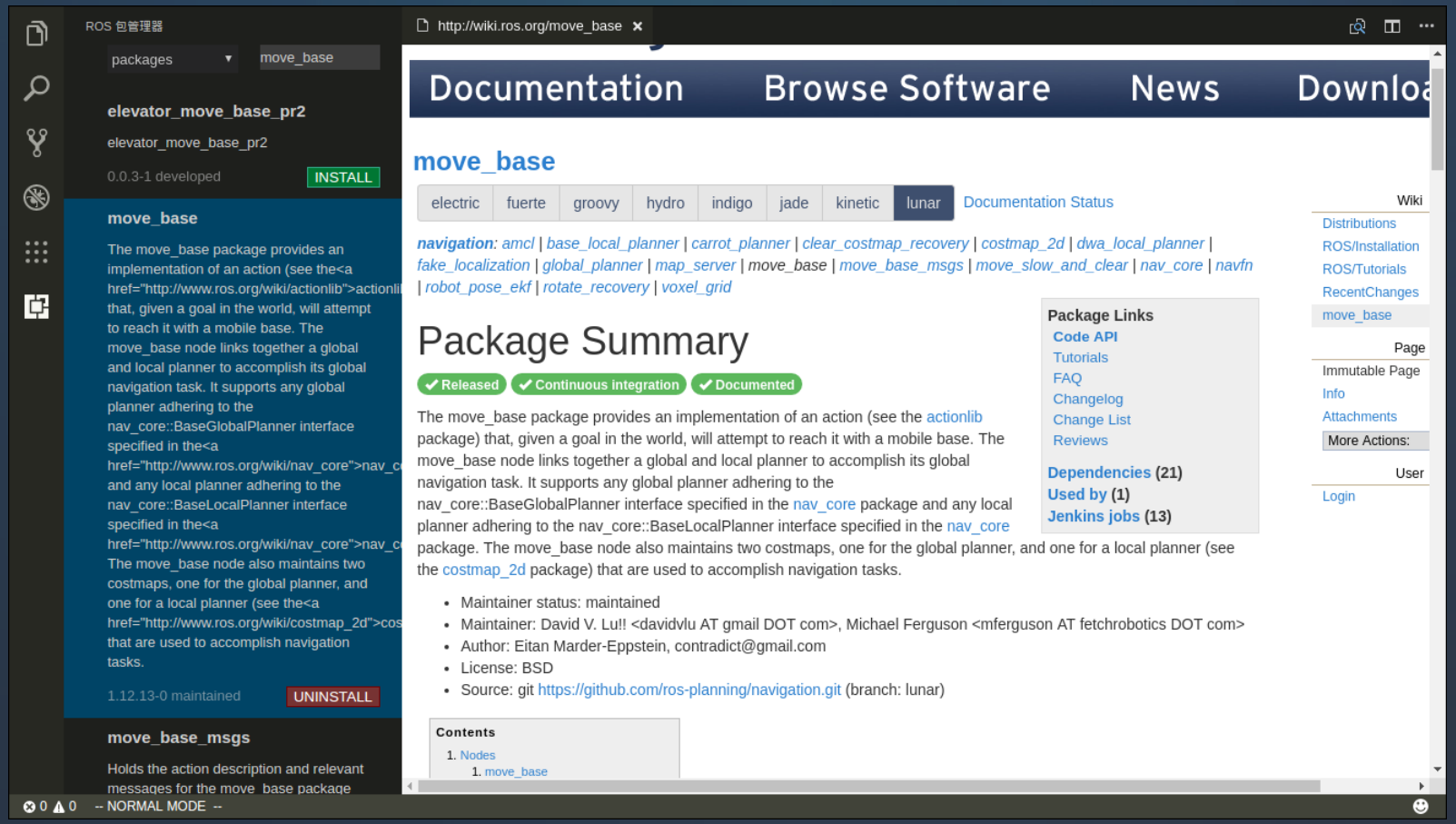
What Can Studio Do?



Built-in ROS package management

—— Convenient installation of ROS packages/ uninstall &check Wiki ——



ROS package one-click-(un)install | meta-package and package searching | integrated ROS Wiki browse

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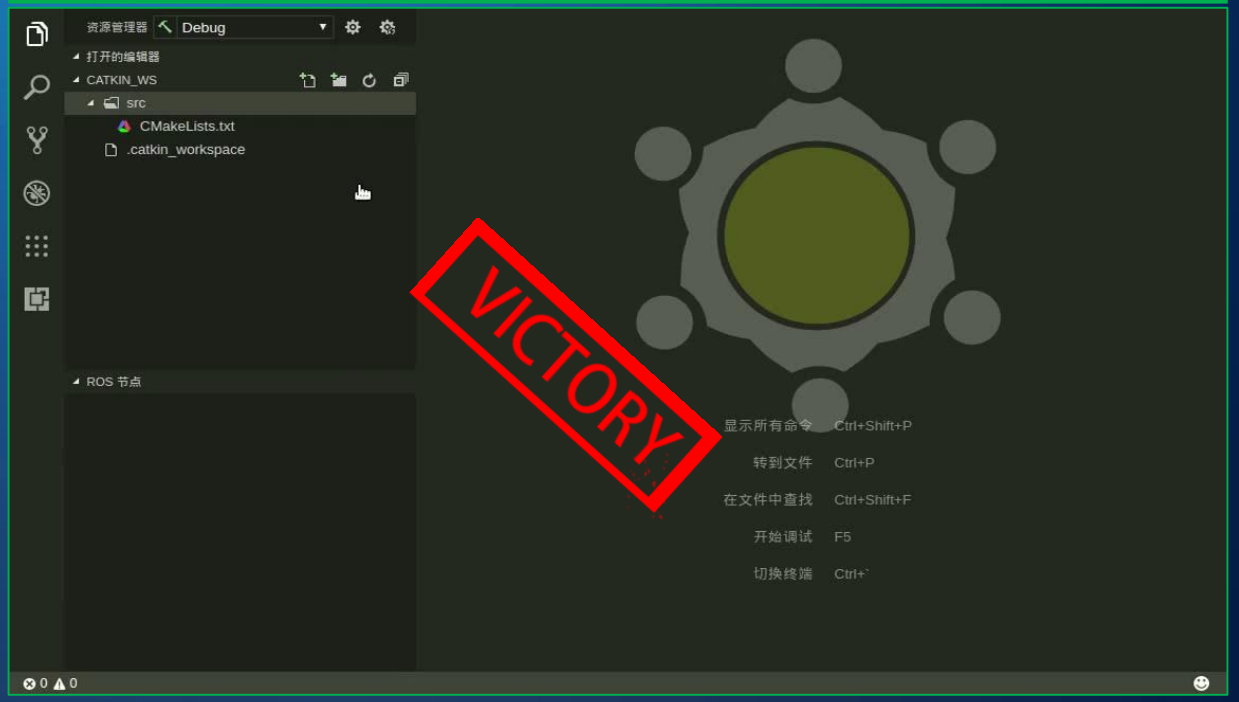
Studio VS Traditional Development

VS

Develop with VIM

Develop with Studio



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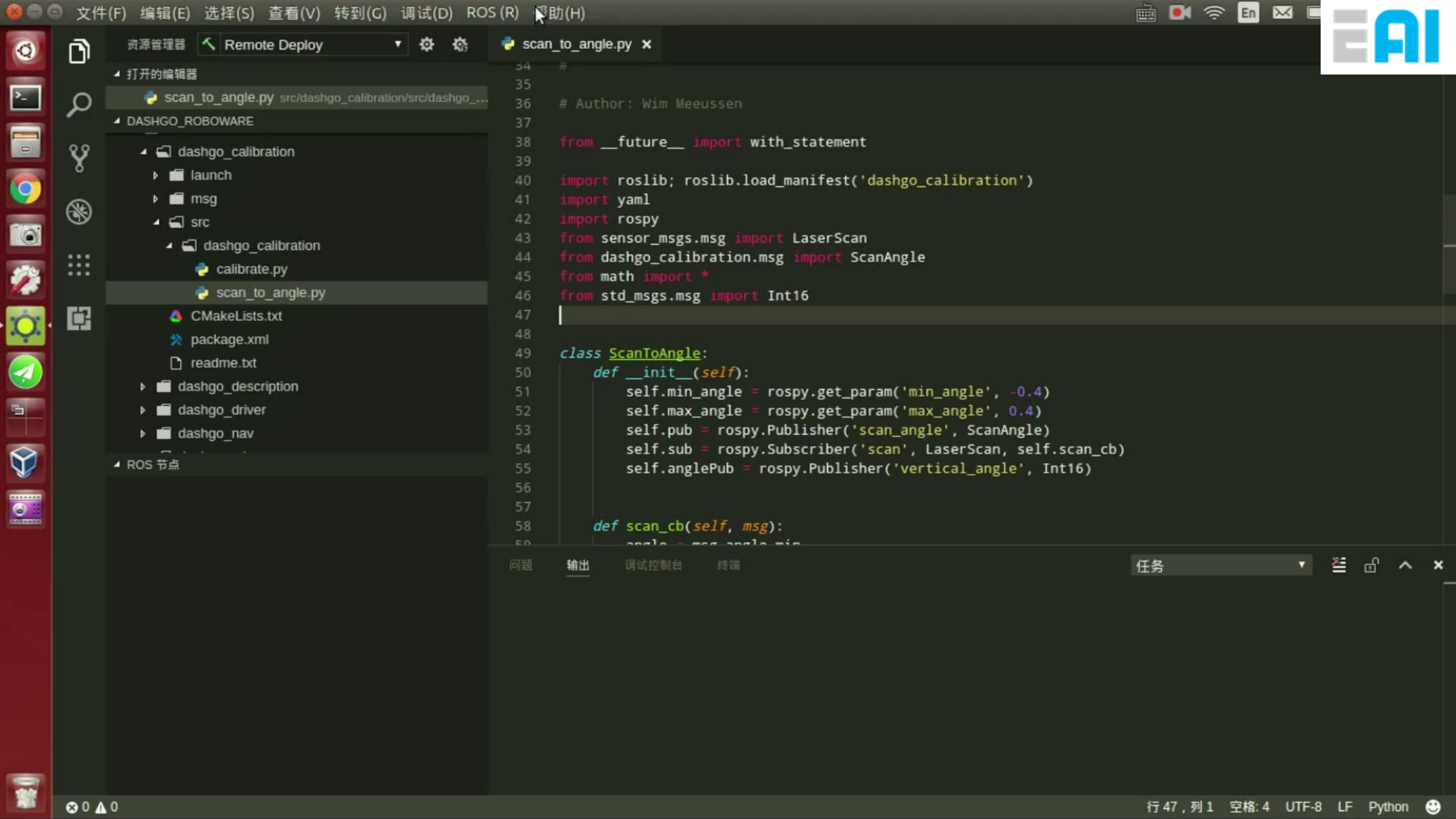
文件(F) 编辑(E) 选择(S) 查看(V) 转到(G) 调试(D) ROS (R) 帮助(H)
资源管理器
Remote Deploy
打开的编辑器
scan_to_angle.py src/dashgo_calibration/src/dashgo_...
DASHGO_ROBOWARE
dashgo_calibration
launch
msg
src
dashgo_calibration
calibrate.py
scan_to_angle.py
CMakeLists.txt
package.xml
readme.txt
dashgo_description
dashgo_driver
dashgo_nav
ROS 节点
scan_to_angle.py
#
# Author: Wim Meeussen
from __future__ import with_statement
import roslib; roslib.load_manifest('dashgo_calibration')
import yaml
import rospy
from sensor_msgs.msg import LaserScan
from dashgo_calibration.msg import ScanAngle
from math import *
from std_msgs.msg import Int16
class ScanToAngle:
def __init__(self):
self.min_angle = rospy.get_param('min_angle', -0.4)
self.max_angle = rospy.get_param('max_angle', 0.4)
self.pub = rospy.Publisher('scan_angle', ScanAngle)
self.sub = rospy.Subscriber('scan', LaserScan, self.scan_cb)
self.anglePub = rospy.Publisher('vertical_angle', Int16)
def scan_cb(self, msg):
问题
输出
调试控制台
终端
任务
0 0
行 47，列 1
空格: 4
UTF-8
LF
Python

RoboWare

The Value of Viewer

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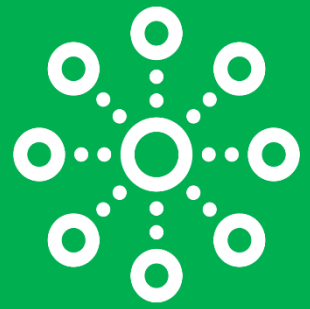
Efficient development of CMS and UI

Visual interface editing

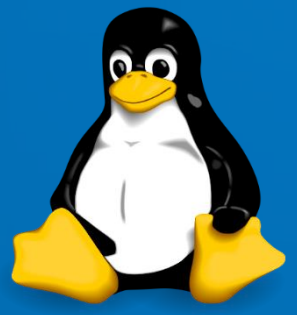
High-efficient development



Quick response

Cross platform

Windows



Linux

Mac

iOS

iOS

Android

RoboWare Viewer Cross platform

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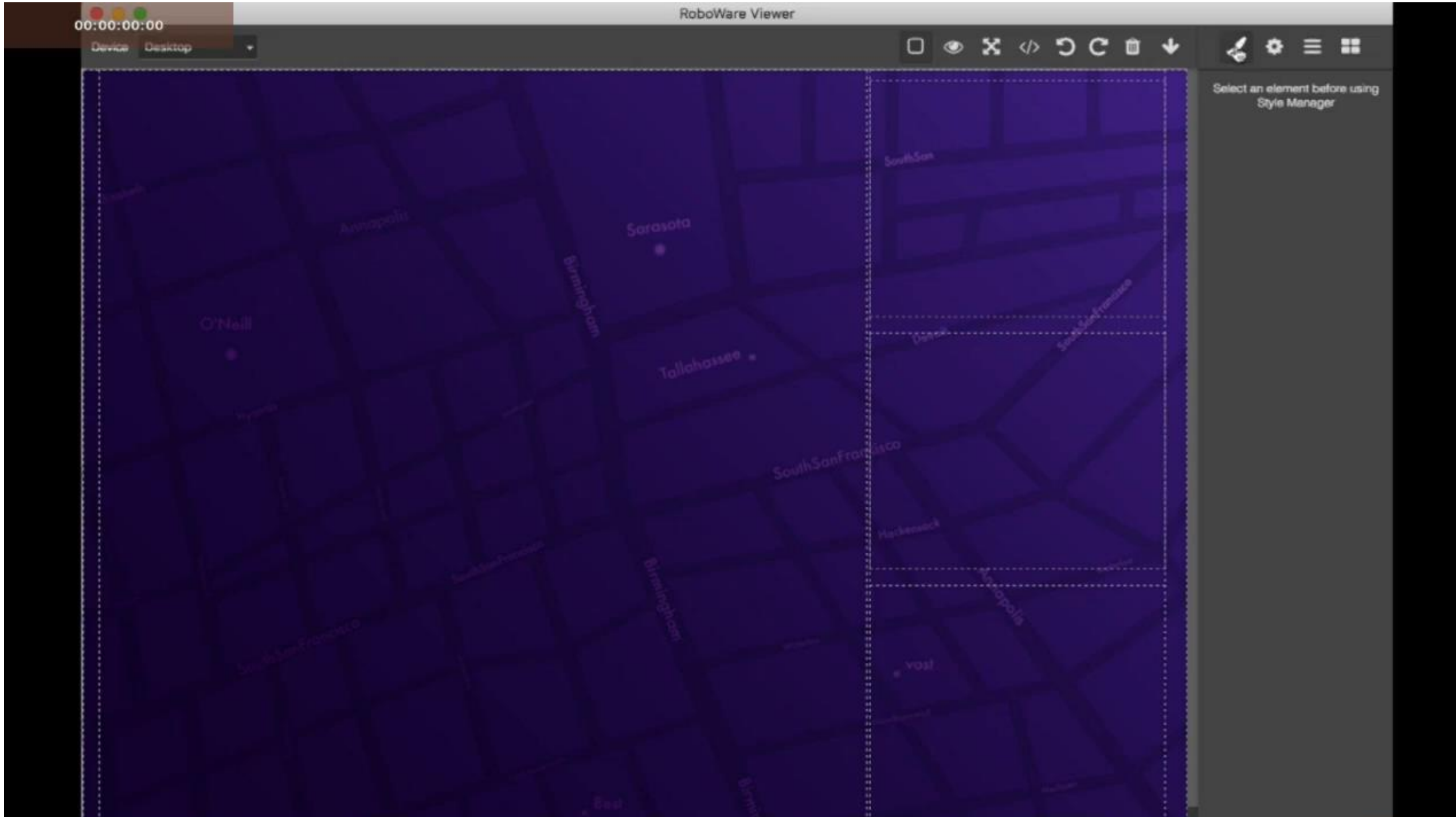
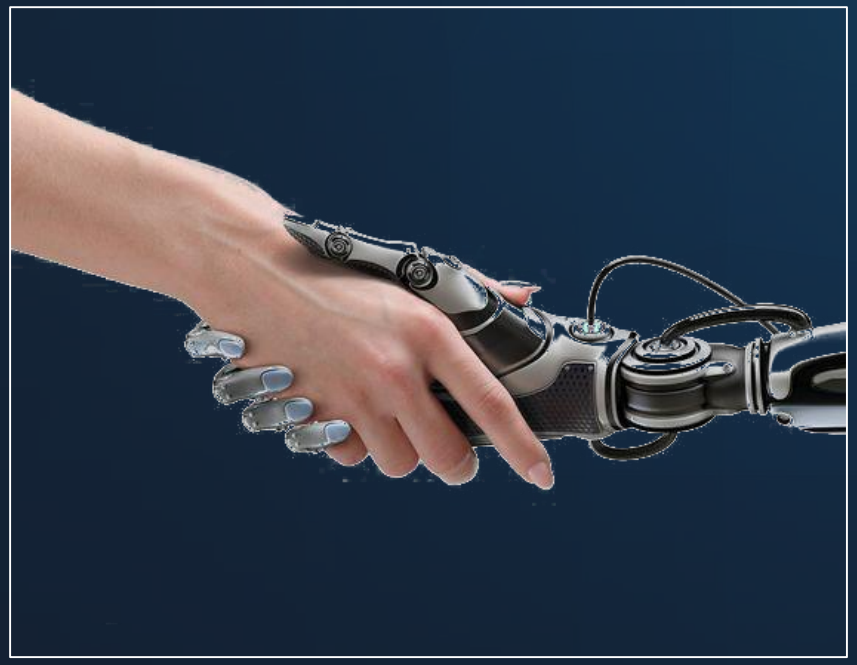

00:00:00:00
RoboWare Viewer
Device
Desktop
Select an element before using Style Manager
Annapolis
Sarasota
Birmingham
O'Neill
Tallahassee
SouthSan
SouthSanFrancisco
Hackensack
Vost



We need you

You are welcome to provide components.

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Further Works

Thinking about the future

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Robo-X Projects

Robot components store

RoboStore

Make creating robots easier

Chinese version is available on http://www.robostore.me

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The Value of RoboStore

Good user experience
Gathering professional hardware to support ROS

Precision of product description
Label ROS compatibility

Provide application cases solutions in different scenarios

High quality service provider

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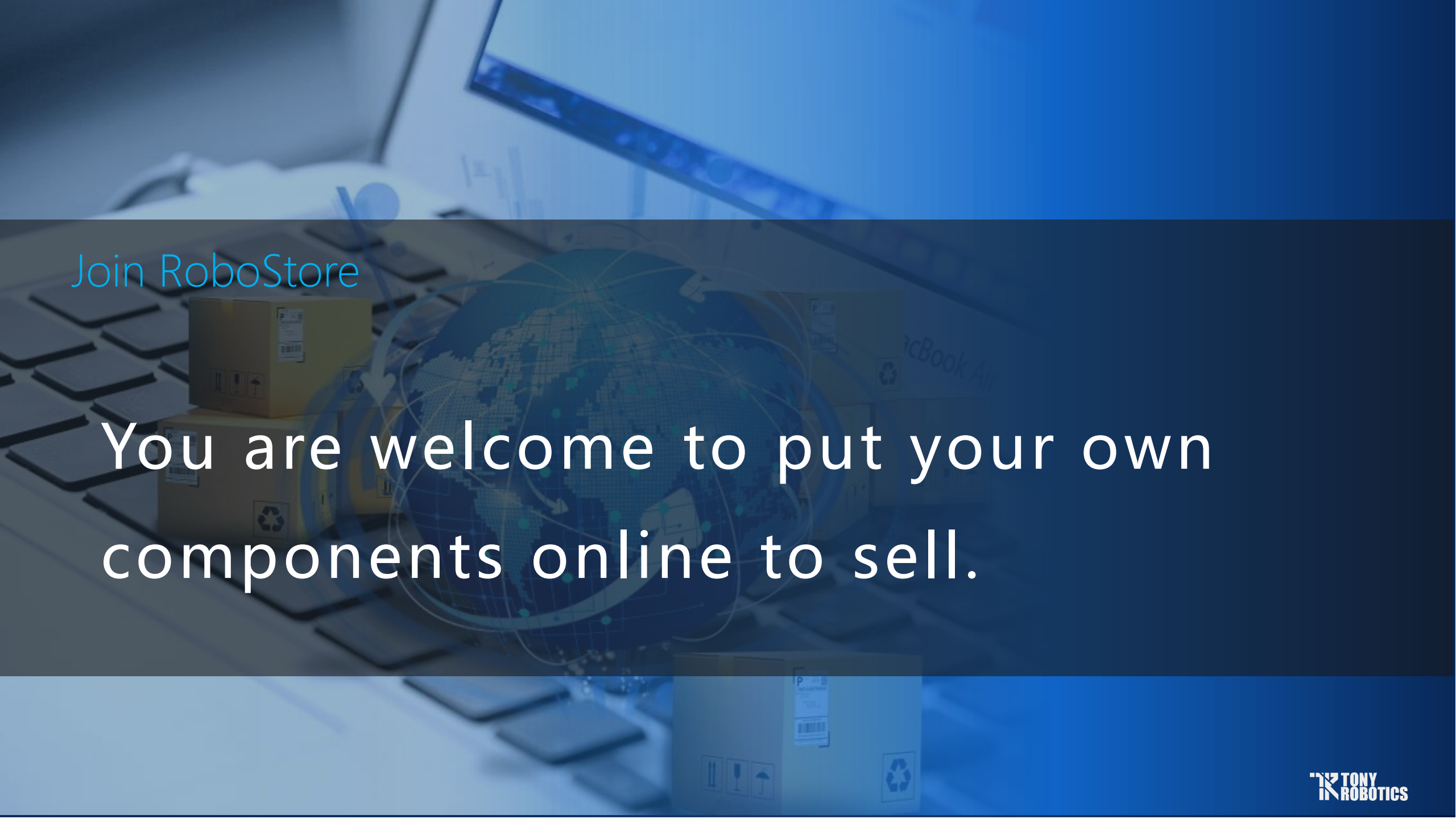

Join RoboStore

You are welcome to put your own components online to sell.

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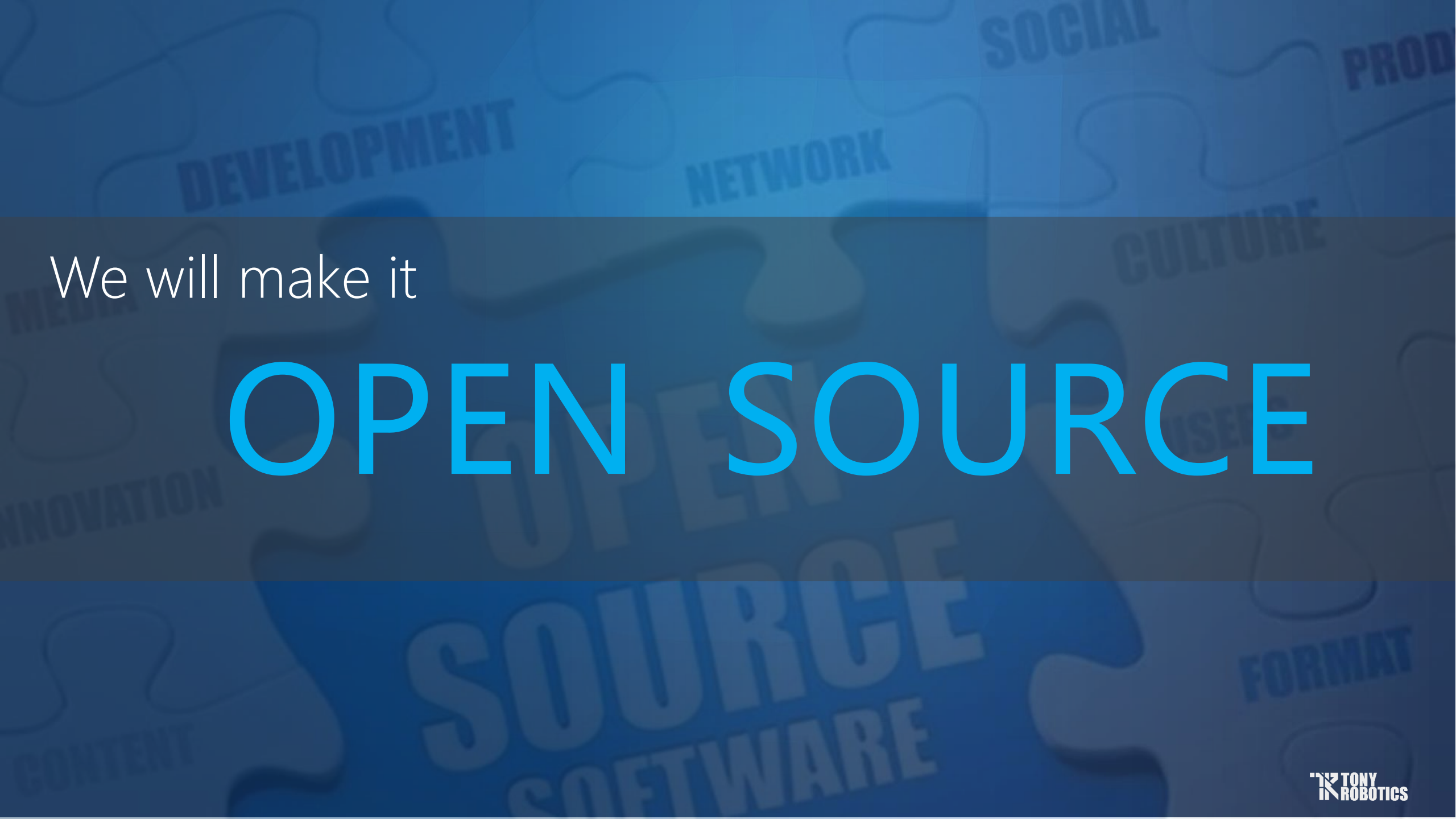
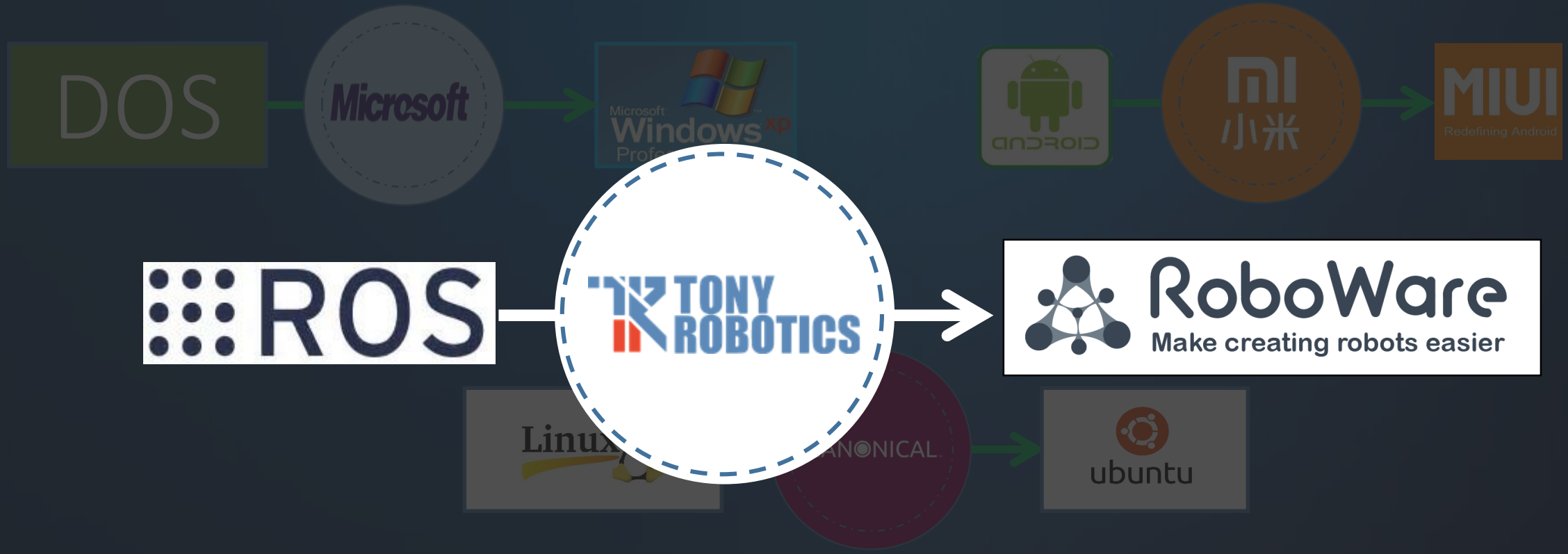
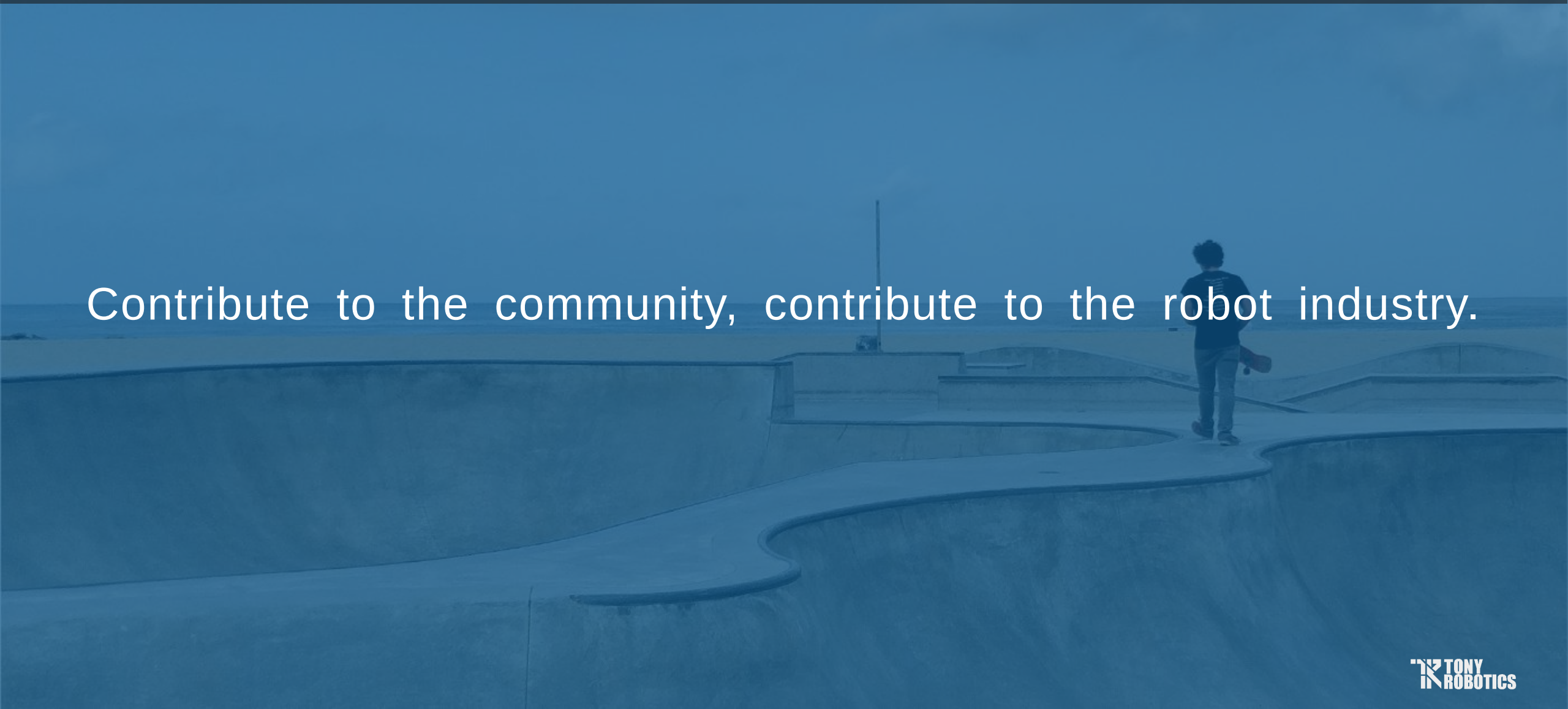

We will make it
OPEN SOURCE
DEVELOPMENT
NETWORK
SOCIAL
CULTURE
INNOVATION
FORMAT
CONTENT
SOURCE
SOFTWARE
TONY ROBOTICS


DOS
Microsoft
Windows xp
ANDROID
MIUI
Redefining Android
ROS
TONY ROBOTICS
RoboWare
Make creating robots easier
Linux
CANONICAL
ubuntu

We have a good wish



Contribute to the community, contribute to the robot industry.

TONY ROBOTICS

TONY ROBOTICS

济南汤尼机器人科技有限公司

Jinan Tony Robotics Co., Ltd.

There is no end to perfection, so just keep going!

Thank you!

Tony Wang

+86-18605313834

info@tonyrobotics.com

www.roboware.me