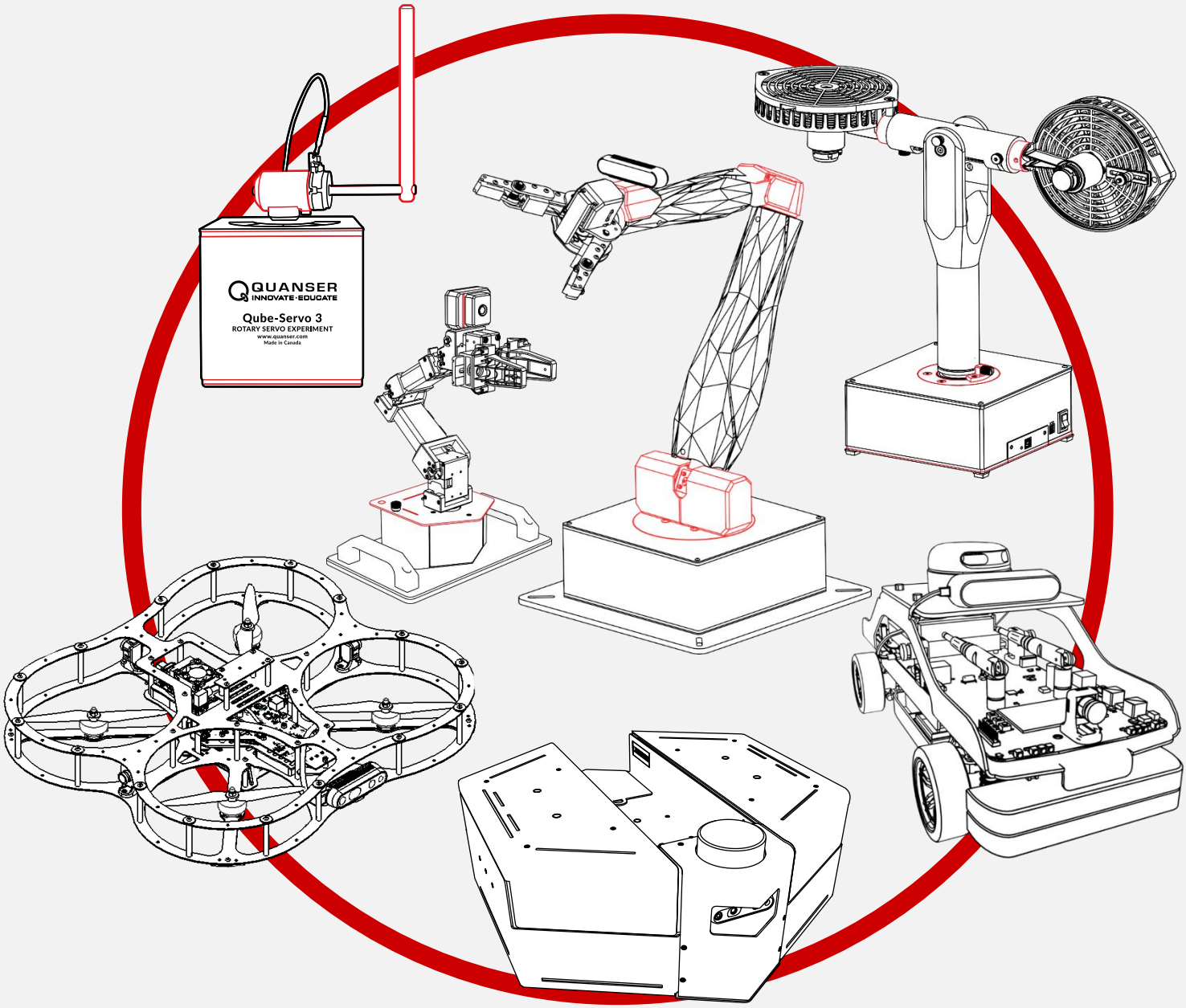
QUANSER
INNOVATE·EDUCATE



Getting Started

Content Guide

V1.1 – 6th March 2025

Welcome to the Quanser resources!

Setting Up the Computer

Note: download and configuration scripts currently only support Windows Machines.

1. Before you get started, your system will need to be configured to work with either Python and/or MATLAB/Simulink.

    a. Run the appropriate configuration file for your usage (`configure_python.bat` and/or `configure_matlab.bat`) located under `/Documents/Quanser/1_setup`

    Note: You can run both configuration tools for your system to be configured for both development environments.

    b. If you have just downloaded the resources, make sure you restart your computer for changes to be saved.

2. IMPORTANT INFORMATION IF A ROUTER WAS PROVIDED:

    a. DO NOT CONNECT THE INTERNET CABLE DIRECTLY TO THE PROVIDED ROUTER. THIS MAY CAUSE UNEXPECTED BEHAVIOR DUE TO AUTOMATIC ROUTER FIRMWARE UPDATES.

Getting Started with Quanser's Resources

3. For a visual representation of the folder structure in the resources, see the next section: Quanser's Resources Structure

4. If you are using a Quanser lab, please review **1-setup** before getting started. The available labs include the following products:
    a. ***Autonomous Vehicles Research Studio*** **(AVRS)**: QDrone, QDrone 2, QBot 2, QBot 2e.
    b. ***Mobile Robotics lab***: QBot Platform and QArm Mini
    c. ***Self Driving Car Studio*** **(SDCS)**: QCar and QCar 2

5. For quick device checks and to make sure your system is set up properly, please review **2-quick start guides** to become familiar with the products you have available.

6. Before using Quanser's products, be sure to read the user manuals located in **3-user manuals**. User Manuals also include software guides to get started with Python and Simulink for devices like the QCar or the QBot Platform.

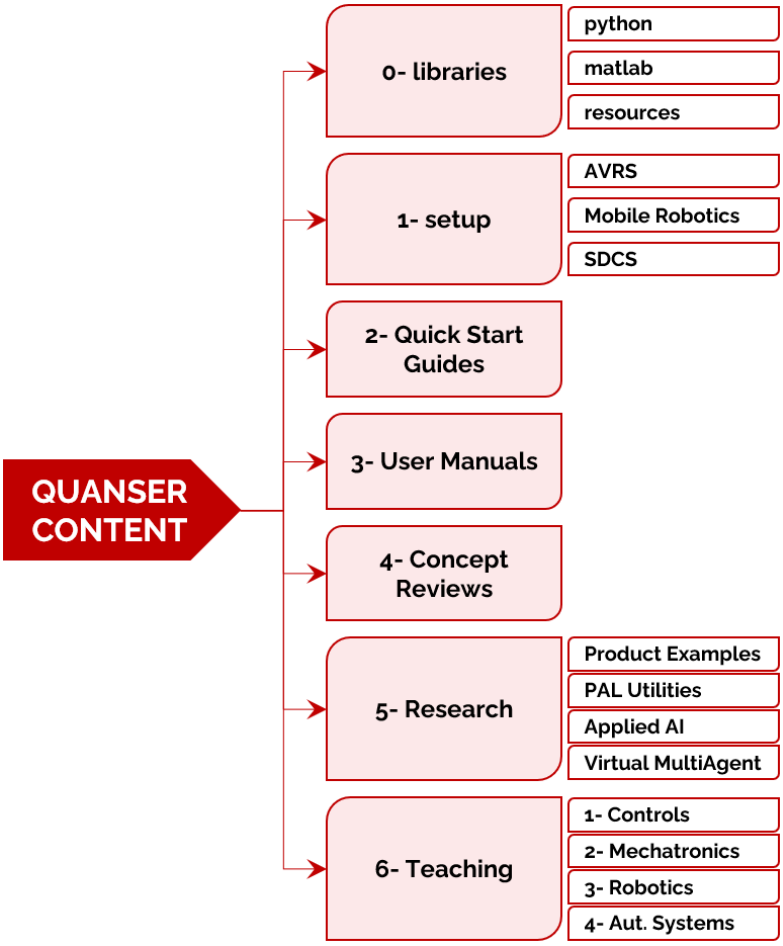
7. Examples, research applications and advanced use of Quanser products are located under **5-research**, please review the research_content_guide to get started.

8. Teaching and student content/labs are located under **6-teaching**. Please review teaching_content_guide to get started. These resources might suggest reviewing content under the **4-concept reviews** folder that contains product-independent supplementary information for students that can be utilized across several products.

9. Please contact Quanser customer success team (tech@quanser.com) regarding any questions or concerns with the setup process.

Quanser's Resources Structure

Quanser content is subdivided into a series of directories to help you get started quickly.



- 0_libraries: Source location for custom Python/Simulink libraries, as well as other useful files used in the libraries. Please review libraries_guide inside the libraries folder for more information.
- 1_setup: Setup for different studio products.
- 2_quick_start_guides: Standalone Quick Start Guides for various products.
- 3_user_manuals: PDF files of user manuals for different Quanser products.
- 4_concept_reviews: Consists of .docx/.pdf files for background concepts utilized in Quanser Curriculum.
- 5_research: Research and IO examples and in either Simulink/Python/ROS for different solutions provided by Quanser. (previously "examples" folder) Includes research_content_guide for more information.
- 6_teaching: Curriculum/lab content for various Quanser products for hardware or digital twins. Includes teaching_content_guide for more information.

- 1_Controls: Aero 2 and Qube-Servo 3 lab content.
- 2_Mechatronics: Placeholder folder for future product content.
- 3_Robotics: QBot Platform and QArm lab content.
- 4_Autonomous_Systems: QCar and QCar 2 self driving car studio skills activities.

Note: the changelog.txt under /Documents/Quanser has the changelog of what has changed with every release as well as what is new with this release.

Quanser Consulting Inc.
119 Spy Court
Markham, Ontario
L3R 5H6, Canada

info@quanser.com
Phone : 19059403575
Fax : 19059403576
printed in Markham, Ontario.