

3RD PARTY LICENSES

REAL-TIME SMART AGRICULTURE SYSTEM ON MT-KERNEL 3.0

This document provides a table and mandatory legal statement for all third-party software components used in the **Real-Time Smart Agriculture System** submission, ensuring compliance with the TRON Programming Contest rules.

1. Third-Party Software and Licenses Table

The table below details external software, libraries, and frameworks used in this project. As required by the rules, for every third-party item, we document the owner, license, purpose, and inclusion status.

Name	Version	Rights holder	License (link)	Purpose in project	Provided (Yes/No)
ESP32 Arduino Core	2.0.7	Espressif Systems	ESP32-ARDUINO	ESP32 Wi-Fi and hardware control	Yes
TensorFlow Lite Micro	2.15.0	Google LLC	Apache 2.0	ML inference for sensor-based predictions	Yes
PubSubClient (MQTT)	2.8	Nick O'Leary	MIT	Publish/subscribe to cloud MQTT broker	Yes
DHT Sensor Library	1.4.2	Adafruit	BSD	Temperature/humidity sensing	Yes
Capacitive Soil Moisture Driver	1.0	Open Source	MIT	Soil moisture sensor interface	Yes
Renesas EK-RA8D1 Board Support Package	1.1	Renesas Electronics	[Proprietary-evaluation allowed]	Hardware initialization and pin configuration	Accepted by TRON guidelines

LINK: https://github.com/220801194-SHAUN-ORLANDO-M/34686_TRON_CONTEST_APPLICATION_PROGRAM/tree/56a0deb129de05e803ac0d2d198b4788c72c2542/LICENSES

Note on Inclusion: For each listed library, the relevant license text will be packaged into the third_party/licenses/ folder in the source repository. Source code is included where permitted; otherwise, precise instructions to obtain it are provided.

2. Legal Statement and Compliance

Required Statement on Distribution Rights:

The software components and libraries listed in the table above are included in this submission in accordance with their respective open-source licenses. We confirm that, to the best of our knowledge, we have the right to provide these packaged copies and/or binaries to the TRON Programming Contest organizers for the sole purpose of evaluating this contest entry. The organizers are authorized to inspect and run this third-party software (source or binary) for up to approximately one week after the Awards ceremony as per the contest rules. All copyrights and rights holders are explicitly noted in the table and in the license files included in the submission.
