- 1a) The Raspberry Pi 2 has the lowest under-load power draw (3.4W).
- 1b) The Macbook Air consumes the least amount of energy (407J).
- 1c) The Macbook Air computes the result the fastest (14s).
- 2) Considering a case of taking a picture once every 60 seconds, then performing a matrix-m ultiply similar to the one in the benchmark, only the Jetson-TX1 and Macbook Air could meet this deadline as the time for them to compute a matrix multiply is 47s and 14s respectivel y.
- 3a) Over an hour, the total energy usage of the Jetson TX-1 is calculated to be:  $(total\ energy)/minute = (47s*13.4W) + (13s*2.1W) = 657J$   $(total\ energy)/hour = 60s*657J = 39426J$
- 3b) Over an hour, the total energy usage of the Macbook Air is calculated to be:  $(total\ energy)/minute = (46s*10W) + (14s*29.1W) = 867J$   $(total\ energy)/hour = 60s*867W = 52044J$
- 4) I would choose the Jetson-TX1 to run off a battery, as it consumes the least amount of e nergy per hour.