

# AUTOMATED SYSTEMS ELECTROMECHANICS

Teacher: Nilolaï Krilov

**Material to support ongoing learning and is 100% on a voluntary basis.**

**For module 4 (Checking Electrical Circuits)**

**For module 10 (Industrial Electronics Circuits)**

**For module 12 (Analysing Logic Circuits)**

RTC's Automated Systems Electromechanics program is a hands-on training program however reading materials are great additional help for understanding basic terminology, principles, technics, materials, and equipment.

Here are reading suggestions for electricity and analog and digital electronics (the web-site has animations, interactive quizzes, and pdf format downloads).

## **Module 4, Checking Electrical Circuits:**

Circuits and resistors ([https://www.learnabout-electronics.org/Resistors/resistors\\_00.php](https://www.learnabout-electronics.org/Resistors/resistors_00.php)),

AC Theory ([https://www.learnabout-electronics.org/ac\\_theory/index.php](https://www.learnabout-electronics.org/ac_theory/index.php))

## **Module 10, Industrial Electronics Circuits:**

Semiconductors [https://www.learnabout-electronics.org/Semiconductors/semiconductors\\_01.php](https://www.learnabout-electronics.org/Semiconductors/semiconductors_01.php)

Power Supplies (<https://www.learnabout-electronics.org/PSU/psu10.php>)

## **Module 12, Analysing Logic Circuits:**

Digital Electronics (<https://www.learnabout-electronics.org/Digital/dig10.php>)

Some practicing of the knowledge could be done by completing quizzes and implementing given examples with the usage of computer simulation software such as Multisim, Circuit Maker, or others. Student versions are available as free downloads from multiple Internet sources:

(<https://en.freedownloadmanager.org/Windows-PC/Multisim-Student.html>),

(<https://en.freedownloadmanager.org/Windows-PC/CircuitMaker-FREE.html>).

Nikolay Krilov: [nkrilov@emsb.qc.ca](mailto:nkrilov@emsb.qc.ca)