

- a. Name: **N. ARUNA**
- b. Qualification: B.tech [ECE]
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- e. Email: aruna@arci.res.in
- f. Experience: Working at ARCI since 2007
- g. Research Areas of Interest:
- Development of control applications using Lab-VIEW platform.
 - Assembly & testing of Analog and Digital electronics circuits.
 - Drawing & Simulating electronic circuits in Proteus, Easy EDA, circuit maker & Fritzing
 - Programming & printing of miniature PLA structures using 3D-printer.
 - Design of 3D shapes in 123 design software
 - Programmable Logic control, step 7, TIA portal.
 - Microcontrollers, IDE Keil – C
 - AC and DC Servo drives, CNC systems
 - Development of Arduino controller based applications
 - Data logging systems
 - Super Capacitors, EV systems, pedelec bicycle
 - Troubleshooting of major multi-disciplinary equipment's
 - R & D support for projects

List of general publications:

1. [*] Coauthor for a published paper entitled "**Development of portable 3d printer with PID controlled heating, fine stepping and self-replicating**" *J. Instrument. Soc. India Vol.43, PP.38-43, 2021*
2. [*] Coauthor for a published paper "**Simulated Lab VIEW setup for studying the combined behavior of Super capacitor and Battery in Hybrid EV**" *J. Instrument. Soc. India Vol.50, pp 133-135, 2020*
3. Coauthor for a published paper entitled "**Computer Control of a Thermal Cycling System**" in *J. Instrument. Soc. India Vol. 45(2) June 2015 pp. 138-139.2.*
4. [*] Coauthor for a published paper "**Development of an Arduino based Charge controller for a solar panel**" *J. Instrument. Soc. India Vol.45 (3), pp 180-181, September, 2015*

5. Coauthor for a published paper entitled "**A Virtual Instrument for Thermal Fatigue Testing of Die Casting Tool**" in *J. Instrument. Soc. India* Vol. `43(4) December 2013 pp. 261-262.
6. Coauthor for a published paper entitled, "**A computer – based approach for developing functionally graded and layered coatings with detonation spray coating process**" in *J. of Scientific & Industrial Research* Vol.72, August 2013, pp.477-480.

Coauthor for a published paper entitled, "**Automation of Arc Discharge setup for production of Carbon Nano tubes**" in *J.*

