

## Contact

[serbanescu\\_matei@yahoo.com](mailto:serbanescu_matei@yahoo.com)

[www.linkedin.com/in/matei-serbanescu-4067113b](https://www.linkedin.com/in/matei-serbanescu-4067113b) (LinkedIn)

## Top Skills

Teamwork

Public Speaking

Research

## Languages

English (Full Professional)

Spanish (Professional Working)

## Honors-Awards

The Exquisite Award

## Publications

Studies for an optimal balancing system for Li ion batteries based on State of Health assessment

Smart, low power, wearable multi-sensor data acquisition system for environmental monitoring

## Patents

Adaptive balancing for battery management

# Matei Serbanescu

Senior Hardware Engineer

Bucharest, Romania

## Summary

Hardware professional experienced in research & development across different fields, such as automotive, medical devices and sensor systems. Focused on both professional and academic development, currently PhD student in electronics engineering at University Politehnica of Bucharest.

## Experience

HARMAN International

5 years 2 months

Team Lead Hardware

July 2023 - Present (1 year 4 months)

Bucharest, Romania

Technical leader for a group of hardware experts

Involved in technical activities coordination and task reporting

Provide mentorship & guidance to junior colleagues

Focused on Power supply architectures for infotainment applications

Contribution to RFQ proposals and proof of concept designs

Senior Hardware Engineer

September 2019 - Present (5 years 2 months)

Bucharest, Romania

Power supply applications designer for infotainment systems

Contribution to RFQ proposals and proof of concept designs

System analysis considering cost-efficiency and mass-production readiness

Coordination of technical activities and task management

Bench verification of analog and mixed-signal blocks (e.g., DC-DC controllers, converters, LDOs and PMIC units)

University POLITEHNICA of Bucharest

Teaching Associate

February 2018 - February 2022 (4 years 1 month)

Bucharest, Romania

Supervisor for Electronic Circuits Seminar, Bachelor level

FHC, Inc.

Hardware Engineer

March 2017 - August 2019 (2 years 6 months)

Bucharest, Romania

Schematic & PCB design for medical systems

Component suppliers selection and BOM management

Work on requirements analysis, deliverables, user manuals and project reports

Circuit simulation to validate concept and architecture

Develop solutions for in-house testing and product validation

Honeywell

2 years 8 months

R&D Engineer

August 2015 - January 2017 (1 year 6 months)

Bucharest, Romania

Design virtual instruments (NI Labview) to facilitate the usage of laboratory equipment

Work on sensor readout circuits according to provided specifications

State-of-the-Art reviews on commercial solutions and emerging technologies

Patent applications and participation at conferences related to the ongoing research topic

Intern

June 2014 - August 2015 (1 year 3 months)

Bucharest, Romania

Participate in the development of automated measurement & data acquisition setups according to provided specifications

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## Education

Universitatea POLITEHNICA din București

Doctor of Philosophy - PhD, Electrical and Electronics

Engineering · (2017 - 2024)

University POLITEHNICA of Bucharest

Master's Degree, Microsystems · (2015 - 2017)

University POLITEHNICA of Bucharest

Bachelor's degree, Microelectronics · (2011 - 2015)