

Arvind Balachandran

Date of birth: 19/02/1994  **Phone number:** (+46) 790612073  **Phone number:** (+46) 734867924

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 **Work:** Linköping University, Institutionen för systemteknik (ISY), 58183 Linköping (Sweden)

WORK EXPERIENCE

Electrical design engineer

ABB AB [15/01/2019 – 01/01/2020]

City: Västerås | **Country:** Sweden

- Software development for control the MOSFETs in a the power management project for mobile robots.
- Research study on active and passive balancers for mobile robots.
- Thesis work: Evaluating the performance of half-bridge and full-bridge modular multilevel converters for low-voltage photo-voltaic systems.

EDUCATION AND TRAINING

PhD in Electrical Engineering

Linköping University [16/03/2020 – Current]

City: Linköping | **Country:** Sweden | **Website:** www.liu.se | **Field(s) of study:** Engineering, manufacturing and construction: • Motor vehicles, ships and aircraft • Electricity and energy | **Type of credits:** ETCS | **Number of credits:** 240 | **Thesis:** Battery-Integrated Modular Multilevel Converters for Automotive Applications

- Published 5 articles (2 journals and 3 conferences)
- Notable Projects: Optimal vehicle maneuvers (2 publications), Numerical methods for simulating ODE and DAEs, Non linear Observers, Advanced FPGA design, GPU Programming, etc.
- Teaching: Power Electronics, Integration of Renewable energy into the power grids.

Masters in Electronics Engineering

Linköping University [20/08/2017 – 10/09/2019]

City: Linköping | **Country:** Sweden | **Website:** www.liu.se | **Field(s) of study:** Engineering, manufacturing and construction: • Electronics and automation • Electricity and energy | **Type of credits:** ETCS | **Number of credits:** 120

- Digital design using VHDL; application specific integrated circuit design (ASIC); VLSI circuit design, development and testing; design of advanced DSPs; low power electronics;

LANGUAGE SKILLS

Mother tongue(s): English

Other language(s):

Swedish

LISTENING B2 **READING** B1 **WRITING** B1

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user
