



# Ionuț-Constantin GURAN

## WORK EXPERIENCE

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[ 01/2018 – Current] **Behavioral Modeling Engineer**

**Infineon Technologies**

**City:** Bucharest | **Country:** Romania

- Development of SPICE models for: LDO regulators, Gate Drivers, DC-DC converters, Power Switches, Charge Pumps, Class D Audio Amplifiers, Battery Management Systems, Hot-Swap Controllers
- The simulation IDEs used are: Orcad Capture, TINA, SIMetrix.
- Exhaustive Verification to assure compliance to the specifications;
- Integration of the models into larger systems;
- Process automation using Python scripts;

[ 08/2017 – 01/2018] **R&D Engineer**

**InterNET Ltd**

**City:** Bucharest | **Country:** Romania

- Design of circuits related to the IoT domain
- Integration of data acquisition systems

## EDUCATION AND TRAINING

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[ 10/2020 – Current] **Ph.D.: Electronics Engineering, Telecommunications And IT**

**Faculty of Electronics, Telecommunications and IT - University "Politehnica" Of Bucharest, Bucharest, Romania**

*Thesis Title: Contributions in Automotive Battery Management*

[ 09/2017 – 06/2019] **Master of Science: Advanced Microelectronics**

**Faculty of Electronics, Telecommunications and IT - University "Politehnica" Of Bucharest, Bucharest, Romania**

- Overall GPA: 10/10

[ 10/2013 – 06/2017] **Bachelor of Science: Applied Electronics**

**Faculty of Electronics, Telecommunications and IT - University "Politehnica" Of Bucharest, Bucharest, Romania**

- Valedictorian
- Overall GPA: 9.88/10

[ 09/2009 – 05/2013] **High School Diploma**

- **National College "Ecaterina Teodorescu" – Târgu-Jiu, Gorj, Romania**
- Mathematics-Informatics, Informatics Intensive

## LANGUAGE SKILLS

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**Other language(s):**

**English**

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

**SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2

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

## DIGITAL SKILLS

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**My Digital Skills**

Cadence Virtuoso | C++ | Python | JavaScript | MATLAB | Linux | Verilog | SPICE |

## DRIVING LICENCE

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**Cars:** B