



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Adrian-Ioan LIȚĂ**
Address Bucharest / Romania
Telephone(s) N / A
E-mail(s) adrian.lita@ieee.org | Web: <https://adrian.lita.me/>
Nationality Romanian
Date of birth N / A
Gender Male

Work experience

Dates	14 November 2017 → now
Occupation or position held	Senior Applications Engineer
Main activities and responsibilities	Develop apps with Microchip parts in Microchip's Mixed Signal and Linear Division. <ul style="list-style-type: none">- coordinating a team of 3 which is responsible to build demo applications and customer support on parts including ADCs, DACs, DigiPots and general firmware.- building concept demos for workshops- getting new ideas out
Name and address of employer	Microchip Technology Romania 4E, Vasile Milea Bvd, 3 rd & 4 th Floors, Bucharest (Romania)
Type of business or sector	Engineering

Dates	24 February 2014 → now
Occupation or position held	Research and Teaching Assistant
Main activities and responsibilities	Teaching: <ol style="list-style-type: none">1. Computer programming (C)2. Data structures and algorithms lab (C/C++) (linked lists, double linked lists, stacks, queues, binary search trees, AVL trees)3. Object-oriented programming lab (C++)4. Medical Imagery Analysis and Processing (various size-wise alterations, contrast enhancements, histeq, edge detection, segmentation, etc)5. Optimization technologies in programming
Name and address of employer	POLITEHNICA University of Bucharest 1-3, Iuliu Maniu Bvd, Bucharest (Romania)
Type of business or sector	Research, Academic

Dates	December 2013 → now
Occupation or position held	Vice president of Vanguard Technology NGO

Main activities and responsibilities	- member of the permanent council - website maintenance - various partnerships and collaboration - research activity: board design, system architecture
Name and address of employer	Vanguard Technology NGO
Type of business or sector	Volunteering, NGO, Engineering
Dates	16 November 2013 → 14 November 2017
Occupation or position held	Senior Embedded Software Engineer
Main activities and responsibilities	Embedded programming and schematic design of DC-DC and AC-DC switched mode power supplies. Worked on projects such as wireless power, USB3.1 adapter, high density PFC, and topologies: Buck, Boost, LLC, bridge-less PFC and Flyback. Programming on STM32 (ARM) and dsPIC, in C and assembly.
Name and address of employer	Rompower Energy Systems 36 Henri Coanda Street, Bucharest (Romania)
Type of business or sector	Research and Engineering
Dates	1 March 2012 → 15 November 2013
Occupation or position held	MCU16 Applications Engineer
Main activities and responsibilities	Motor Control: BLDC motors, ACIM motors, stepper motors, high speed BLDC motors. Also developed: high speed isolated USB-UART communication circuit, low-power SMPS circuit using Microchip MCP16301 part, dual motor development board (signal board and part of power board), various motor control PIMs, technical documentation, marketing analysis. Between January 2013 and June 2013 I have voluntarily coordinated one student for his bachelor thesis, helping him with some of the electronic circuits implemented on the car, and discussing possible algorithm implementations (project: Autonomous Vehicle Command Algorithm).
Name and address of employer	Microchip Technology Romania 4E, Vasile Milea Bvd, 3 rd & 4 th Floors, Bucharest (Romania)
Type of business or sector	Engineering
Dates	23 September 2011 → 1 March 2012
Occupation or position held	HPMD Applications Intern Engineer
Main activities and responsibilities	Motor Control: BLDC motors, ACIM motors, stepper motors, high speed BLDC motors
Name and address of employer	Microchip Technology Romania 4A Vasile Milea Bvd, 6 th Floor, Bucharest (Romania)
Type of business or sector	Engineering
Dates	15 July 2011 → 02 September 2011
Occupation or position held	Collaborating Student, Researcher
Main activities and responsibilities	Simulating, testing and upgrading of ESS (Evasive Steering Support) for BMW and Mercedes.
Name and address of employer	Universität der Bundeswehr München, prof. Werner WOLF D-85577 Neubiberg (Deutschland)
Type of business or sector	Research
Dates	16 May 2011 → 7 July 2011
Occupation or position held	Collaborating Student
Main activities and responsibilities	Part of a team who had the task of implementing a proprietary speech recognition algorithm for Romanian language on embedded Linux using ARM processor.
Name and address of employer	POLITEHNICA University of Bucharest, prof. Corneliu BURILEANU 1-3 Iuliu Maniu Bvd, Bucharest (Romania)

Type of business or sector Research

Dates 01 January 2011 → 14 May 2011

Occupation or position held **Tutor coordinator in MINERVA Project**

Main activities and responsibilities - over 12 teams of 4-5 students in coordination
- responsibility to teach and guide each team to design a microcontroller (PIC) project

Name and address of employer **POLITEHNICA University of Bucharest, CETTI, prof. Paul SVASTA**
1-3 Iuliu Maniu Bvd, Bucharest (Romania)

Type of business or sector Academic coordination and research

Dates 05 July 2010 → 18 July 2010

Occupation or position held **Collaborating Student**

Main activities and responsibilities - specialized practice for students
- image acquisition and processing
- build RS-232 controllable toy car

Name and address of employer **POLITEHNICA University of Bucharest, prof. Ovidiu GRIGORE**
1-3 Iuliu Maniu Bvd, Bucharest (Romania)

Type of business or sector Research

Dates November 2009 → June 2010

Occupation or position held **Vice president of Electronics Engineering Students' League (LSE.org.ro)**

Main activities and responsibilities - project and human resources management
- maintaining a strong connection between LSE and faculty's executive board

Name and address of employer **Electronics Engineering Students' League**
1-3 Iuliu Maniu Bvd, Bucharest (Romania)

Type of business or sector Volunteering, NGO

Dates October 2009 → October 2010

Occupation or position held **Member of Faculty's Council**

Main activities and responsibilities - active participation in taking decisions
- representing students' interests

Name and address of employer **Electronics, Telecommunications and Information Technology Faculty**
1-3 Iuliu Maniu Bvd, Bucharest (Romania)

Type of business or sector Academic

Dates October 2009 → October 2010

Occupation or position held **Member of POLITEHNICA University of Bucharest Senate**

Main activities and responsibilities - representing students' interests

Name and address of employer **POLITEHNICA University of Bucharest**
313 Splaiul Independentei, 060042 Bucharest (Romania)

Type of business or sector Academic

Dates 31 August 2009 → 11 September 2009

Occupation or position held **Collaborating Student**

Main activities and responsibilities - specialized practice for students
- research in embedded technology and embedded programming (embedded Linux)

Name and address of employer **University of Pitesti**
Pitesti (Romania)

Type of business or sector Research

Dates 06 July 2009 → 13 July 2009

Occupation or position held **Collaborating Student**

Main activities and responsibilities - specialized practice for students
- data acquisition and data processing of medical and bio signals

Name and address of employer **POLITEHNICA University of Bucharest**, prof. **Mihaela UNGUREANU**
1-3 Iuliu Maniu Bvd, Bucharest (Romania)

Type of business or sector Research

Dates 01 March 2009 → 01 June 2009

Occupation or position held **Collaborating Student**

Main activities and responsibilities - research regarding electrical solder joints (both electrical and mechanical functions of soldering)

Name and address of employer CETTI, **POLITEHNICA University of Bucharest**, prof. **Paul SVASTA**
1-3 Iuliu Maniu Bvd, Bucharest (Romania)

Type of business or sector Research

Education and training

Dates October 2014 → now

Title of qualification awarded **PhD, Automated Control Systems**

Principal subjects / occupational skills covered Main studies include: control loops, magnetoresistive circuits, machine learning, fuzzy logic

Name and type of organisation providing education and training **POLITEHNICA University of Bucharest**
1-3 Iuliu Maniu Bvd, Bucharest (Romania)

Dates October 2012 → now

Title of qualification awarded **Master, International Affairs**

Principal subjects / occupational skills covered Main studies include: International Affairs Management, Business Communication, Marketing, International business environment, Ethics, Negotiation, Foreign markets, Fundraising in international business context, Operations on foreign capital markets, etc

Master thesis:

Name and type of organisation providing education and training **Bucharest Academy of Economical Studies**
6 Piata Romana, Bucharest (Romania)

Dates October 2012 → July 2014

Title of qualification awarded **Master of Science in Advanced Integrated Technologies in Automotive Engineering**

Principal subjects / occupational skills covered Main studies include: CAD (Thermal and Electrical simulation, PCB design), Automotive Electronics, Optoelectronics, Automotive Chemistry

Master thesis: Four temperature zones efficient climate control automotive system - HVAC

Name and type of organisation providing education and training **POLITEHNICA University of Bucharest**
1-3 Iuliu Maniu Bvd, Bucharest (Romania)

Dates 27 October 2009 → 07 December 2009

Title of qualification awarded **Leadership**

Name and type of organisation providing education and training **Leaders' Foundation Romania, Ascendis Romania**
Bucharest (Romania)

Dates 31 August 2009 → 06 September 2009

Title of qualification awarded **Communication**

Principal subjects / occupational skills covered - human-to-human communication
- best expressing emotions
- team-building

Name and type of organisation providing education and training **Ministry of Youth and Sports, Ministry of Education, Research and Innovation, and Ministry of Labour**

Dates	October 2008 → July 2012
Title of qualification awarded	Bachelor of Science in Electronics Engineering: Applied Electronics (10 out of 10)
Principal subjects / occupational skills covered	Main studies include: Algebra, Electronic Measurements, Object-Oriented Programming, Data Structures and Algorithms, Data Acquisition, Television, Telecommunications, Integrated Circuits, FPGA Programming, etc. Secondary studies include Communication and Macroeconomics. Bachelor thesis: 3-dimensional multiprocessor flight system with 6 vertical propellers
Name and type of organisation providing education and training	POLITEHNICA University of Bucharest 1-3 Iuliu Maniu Bvd, Bucharest (Romania)

Dates	September 2004 → July 2008
Title of qualification awarded	Romanian Bacculaureate: 9.77 out of 10 (Advanced Mathematics: 98%; Informatics: 99%; English Language Oral: 100%; Romanian Language Oral: 100%; Romanian Language: 89%; Sports: 100%)
Principal subjects / occupational skills covered	Mathematics, Physics, Computing, Logic, Chemistry, Biology, Romanian, English, French, Economy, Psychology, Philosophy, History, Geography, Music, Drawing, Religion, Management
Name and type of organisation providing education and training	"Zinca Golescu" National College (Theoretical College) Pitesti (Romania)

Dates	2002 → 2004
Title of qualification awarded	Cisco Certified Network Associate (CCNA)
Principal subjects / occupational skills covered	Networking, TCP/IP, UDP, ISDN, Frame Relay, BGP, OSPF, EIGRP, wireless networks
Name and type of organisation providing education and training	University of Pitesti, CISCO Pitesti (Romania)

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment <i>European level</i> (*)	Understanding		Speaking		Writing	
	Listening	Reading	Spoken interaction	Spoken production		
English	C1 Proficient user	C1 Proficient user	C1 Proficient user	C1 Proficient user	C1 Proficient user	C1 Proficient user
German	B1 Independent user	B1 Independent user	B1 Independent user	B1 Independent user	B1 Independent user	B1 Independent user
French	B1 Independent user	A2 Basic user	A2 Basic User	A2 Basic User	A2 Basic User	A2 Basic user

(*) [Common European Framework of Reference \(CEF\) level](#)

Social skills and competences

- Team spirit gained during lots of camps, team-buildings, and from participating in several NGOs activities and projects;
- Very good communication and emotions perception skills; NLP basics;
- Good ability to adapt to multicultural environments achieved by a very communicative and open-minded attitude;
- Very cheerful person with a realistic/optimistic vision
- In my second year as a student, I have been the main tutor of the younger (first year) students (about 500 students)
- In my third year as a student, I have lead 12 teams of 4-5 students each in understanding microcontrollers' basic functions and passive components purpose (Minerva Project)
- I've been teaching programming to more than 800 students when worked as a teaching assistant for Politehnica University of Bucharest

Organisational skills and competences - 3 years of volunteering in the Electronics Engineering Students' League, with 2 years being in the

management committee (1 year vice president, and 1 year member of the council)

- leadership training
- experience in managing teams
- very good experience in team or project coordination and management, being coordinator/manager in many projects done while being a student

Technical skills and competences

- C developer guru
- Linux / ARM / dsPIC / PIC32
- operating systems
- developing prototypes (hand built)
- Devops: Git and SVN

Computer skills and competences

- very experienced in: C, Assembly, Altium, KiCad, MATLAB (scripting and SimuLink)
- experienced in: C#, Python, PHP, MySQL

Other skills and competences

Hobbies: music, electronic projects, car and airplane models
Sports: kitesurfing, ski, bike, tennis

Driving licence(s) B (>10 years)

Additional information

Publications:

Books:

- Guidelines for computer use, 2007 - ISBN: 978-973-755-280-8 – Matrix Rom
- Energy Harvesting and Energy Efficiency – ISBN: 978-3-319-49875-1 (eBook) 978-3-319-49874-4 (Print) - Springer

Articles:

- **Over 30 articles, see <https://adrian.lita.me/articles.html> or ResearchGate under my name.**