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# Lucas Goulart Grossi

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## Presentation

Electrical Engineering, with emphasis in Computer Engineering, graduated from Federal University of Minas Gerais in July / 2017. Interested in Electrical Engineering, Computer Engineering, Electronic Engineering and Systems Engineering areas. Fluent in English, basic knowledge in Italian and Spanish. Worked on projects and researches to LG and Intel. Available to travel, car driver's license (B).

## Academic Education

**2011 - 2017**

**UFMG**

**Belo Horizonte/MG**

- Undergraduation in Electrical Engineering at Federal University of Minas Gerais (UFMG), Belo Horizonte – MG, Brazil:
  - Beginning: 2nd half of 2011
  - Graduation: 1st half of 2017

## Professional Experiences

**Aug / 2016 – Present**

**ETEG**

**Belo Horizonte/MG**

**Software Engineer trainee**

- Coordination of a three Month duration project for development and implementation of improvements on Medical Association of Minas Gerais library system.
- AMMG and Voca systems maintenance and support: attending client urgent demands for repair or help and intermediation between ETEG and partners.
- Technologies that I have worked with: Java, Grails, Groovy, MySQL, CSS, GSP, Git

**Fev / 2016 – May / 2017**

**SYDLE**

**Belo Horizonte/MG**

**Software Engineer trainee**

- Development, maintenance and improvement of web systems (back and front end), to many clients, focused in:
  - E-Commerce
  - BPM
  - Billing
- Technologies I Have worked with: Java, JS, Web (CSS/HTML), version control tools (Git), Angular, MySql, Oracle, Mongo.
- Attendance to clientes like: Grupo Super Nosso, Estadão, Soebrás, others.

**2015 - 2016                      Computer Sciences Department (DCC) / UFMG                      Belo Horizonte/MG**

**Research and Development (R&D) scholarship at LG AoT project**

- Setup of electric circuits focused in energy measurement.
- Research about energy consumption on Internet of Thing (IoT) context.
- Research about cryptosystems focused in IoT and home automation.
- Writing and publication of articles based on our researches.
- Development of a patent for LG Electronics: "System and Method For Authentication of Things"
- Technologies I have worked with: C++, Java, Android Development, MatLab, version control tools (Git).

**2015 - 2015                      Computer Sciences Department (DCC) / UFMG                      Belo Horizonte/MG**

**Research and Development (R&D) scholarship at Intel Strategic Research Alliance (ISRA)**

- Setup of electric circuits focused in energy measurement.
- Research about energy consumption on IoT context.
- Writing and publication of articles based on our researches.
- Technologies I have worked with: C++, Java, Android Development, MatLab, version control tools (Git), Excel.

**2014 - 2015                      Electric Circuits Lab / UFMG                      Belo Horizonte/MG**

**Monitor**

- Support students with difficulties on circuits lab practices.

**2013 - 2014                      School of Architecture / UFMG                      Belo Horizonte/MG**

**Undergraduate scholarship in Technologic Innovation for Ubicomp Projects Core (NTCA)**

- Research about Ubiquitous Computing (word used to describe the omnipresence of computer systems on people's quotidian).
- Writing and publication of articles based on our researches.
- Development of the project and prototype of an application to control campus parking lots: 'Estaciona UFMG' (2013). The app is available at Apple Store. More information at <http://www.arq.ufmg.br/rcesar/estaciona/>.
- Technologies I have worked with: Objective-C, iOS applications developer.

**2012 - 2014                      ECO Magazine                      Belo Horizonte/MG**

**Editor**

- Publication of ECO Magazine digital versions.

**2011 - 2012                      Belo Horizonte/MG**

**Autonomous Math and Physics Tutor**

- Physics and mathematics classes and exercises for elementary and high school students.

**2007 - 2011                      Belo Horizonte/MG**

**Freelance**

- Web sites and electronic games development.
- Customization and improvement of a CPP based framework to game development support.
- Implantation and availability of online games servers.
- Technologies that I have worked with: C++, Allegro, dreamweaver, html, css, JS, Lua.
- General Coordination of annual Youth Encounters.

- Motivational and leadership speeches to youth.
- Leadership of team that organize and perform weekly activities with teenagers and youth.

## Papers, Patents and Workshops

- "Gestão Eficiente Para Estacionamento e Redes Sociais - Estudo de Caso", SBQP&TIC 2013
- "Uma survey em Autenticação de Usuários em Smart Devices: Defesas e Ataques", WTICG - SBSEG 2015
- "Uma Avaliação de Toolkits Criptográficas Baseadas em Emparelhamento Bilinear", SBSEG 2015
- Intel Strategic Research Alliance (ISRA) Workshop, Florianopolis (2015)
- System and Method For Authentication of Things patent (2015/In progress)

## Computer Knowledge

- **Advanced Knowledge:** Objective-C, C, C#, C++, Java, JavaScript, Angular, SQL, MYSQL, Oracle, Mongo, CSS, HTML, Python, Excel, Word, PowerPoint, Linux, Visual Studio, Matlab, Latex, Photoshop, Illustrator, Dream Weaver, smartphones development (iPhone e Android).
- **Basic Knowledge:** PHP, Assembly e VHDL.
- **Experience with:** Quartus, LT Spice, FEEM, Verilog e Mars.

## Courses and Competitions

<b>2008</b>	<b>IPEC/ADOBE</b>	<b>Belo Horizonte/MG</b>
	<ul style="list-style-type: none"><li>• Macromédia Flash/Dreamweaver course aiming websites.</li></ul>	
<b>2009</b>	<b>Colégio Santo Antônio</b>	<b>Belo Horizonte/MG</b>
	<ul style="list-style-type: none"><li>• High school robotics and C/C++ course aiming MindStorm at Colégio Santo Antônio.</li></ul>	
<b>2010</b>	<b>Colégio Santo Antônio</b>	<b>Belo Horizonte/MG</b>
	<ul style="list-style-type: none"><li>• High school C/C++ course aiming game development at Colégio Santo Antônio.</li></ul>	
<b>2010</b>	<b>TRT/MG</b>	<b>Belo Horizonte/MG</b>
	<ul style="list-style-type: none"><li>• Essay contest winner at V Conciliation Week of TRT 3th Region (2010).</li></ul>	

## Professional References

- Leonardo Barbosa - Advisor at CNPQ/INTEL and CNPQ/LG projects – phone: (31) 3409-5860  
<http://www.dcc.ufmg.br/dcc/?q=en/node/1442>  
and <http://lattes.cnpq.br/2522777418118689>
- Renato César - Advisor at CNPQ/NTCA project – phone: (31) 34098880  
<http://lattes.cnpq.br/7770426854513021>

## Personal References

- Alessandro Grossi Soares – Presales Solution Architect Lead / Unisys Brasil - phone: (31) 97173 8762
- Dimas Aparecido Pereira – Engineer / TBE - phone: (11) 99892 4252 / TBE (11) 96611 7357/(11) 3382 8756
- Rodolfo Coli – Director of Generation's Marketing and Regulation/CPFL Energy – phone: (19) 99198 6358
- Rafael Paiva – Partner and Director at ETEG - phone: (31) 99153 73 37