

# ADRIANO HENRIQUE ROSSETTE LEITE

## Control and Automation Engineer

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## EXPERIENCE

### Robotics Researcher

#### UNIFEI - Federal University of Itajubá

📅 March 2010 – Ongoing    📍 Itajubá, MG, Brazil

- Subject Monitor: Solids Engineering and Robotics Laboratory;
- Scientific Research Initiation in Robotics: Computer Vision and Navigation;
- Science without Borders (CsF) scholar at TTU;
- Expertinos Autonomous Robotics Team member and leader;
- Mobile Autonomous Robotics Challenges and Competitions participant (LARC, CBR, HRATC and RoboCup);
- Awarded the Control and Automation Engineering Student of the year;
- Teaching Internship

### Software Application Developer

#### Cecília Prado Tricot

📅 April 2017 – November 2017    📍 Jacutinga, MG, Brazil

- Remote work;
- Code versioning using the git tool;
- Java EE 7;
- Local database interactions using the Hibernate framework;
- JSF Graphical components using the Primefaces framework;
- Software engineering applied to design and development of an application for monitoring employees production efficiency.

### Control and Automation Engineer

#### HVEX - High Voltage Equipments

📅 October 2015 – June 2016    📍 Itajubá, MG, Brazil

- Specification and installation of the workshop electric and pneumatic systems;
- Specification and installation of the company camera monitoring system;
- Design, components purchase and construction of a electric power regulator panel.

### Human Resources Intern

#### Delphi Automotive Systems

📅 January 2008 – Agost 2008    📍 Jacutinga, MG, Brazil

- Candidate appointment scheduling for the recruitment team;
- Registration of employee in agreements;
- Document delivery and employee signature collection on the production line.

## SKILLS

Design    Petri Nets    State Machine  
Graphs    Automata Supervisory Control  
Design Patterns

Programming    UNIX/Linux    Ladder  
Matlab/Octave    Simulink    LabVIEW  
SCADA    C++    Java    Python    C#  
SQL    PROLOG    L<sup>A</sup>T<sub>E</sub>X    ROS    UML  
Assembly    Arduino    Raspberry Pi

AI    Planning    Scheduling  
Optimization Methods

Computer & Industrial Networks    CAN  
PROFIBUS    Protobuf

Control Analysis & Design  
Compensation    PID    Lead-Lag  
Pole Placement    State Observer  
Discrete    Continuous    Filtering  
Adaptive    Predictive    Robust

## IDIOMS

English  
Italian



## FORMATION

M.Sc. in Electrical Engineering  
Federal University of Itajubá (UNIFEI)

📅 March 2016 – March 2018

B.Sc. in Control and Automation  
Engineering

Federal University of Itajubá (UNIFEI)

📅 March 2010 – December 2015

B.Sc. in Computer Engineering  
(extension)

Tennessee Technological University (TTU)

📅 Agost 2013 – May 2014