



## DANILO DÍAZ TARASCÓ

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Web references:

<https://ve.linkedin.com/in/ddtdanilo/en>

<https://github.com/ddtdanilo>

<http://mecatronica.labc.usb.ve/quienes-somos/>

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**Personal Statement** Innovative, creative and passionate electronic engineer with interest in R&D. I'm a hardworking and committed with all the projects that I'm enroll. I have personal interest on Mechatronics, Power Electronics, Energy Harvesting, PCB Manufacturing, Embedded Systems and IoT.

### Personal Information

- Date and place of birth: April 20, 1993, Miranda, Venezuela.
- Nationality: Venezuelan.
- Marital status: Single.
- Address: San Diego de los Altos, Miranda, Venezuela.

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### Education

#### **B.S. Electronics Engineering**

*Simon Bolivar University, Caracas, Venezuela*

*September 2010 – June 2016*

#### **Postgraduate studies leading to the degree of MSc in Electronics**

*Simon Bolivar University, Caracas, Venezuela*

Concentration in Mechatronics and Power Electronics

*June 2016 – June 2018*

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### Experience

*September 2015 - Present*

**Project Engineer, Mechatronics Research and Development Group (MRDG), Simon Bolivar University**

- Development of high level engineering projects for public and private enterprises through PTS (Parque Tecnológico de Sartenejas) and Funindes.
- Worked on a multidisciplinary team.
- Made critical decisions within the limit of low budget.
- Managed time for several projects at the same time.
- Top to bottom develop of projects that involves mechanical and electrical design.
- Made an PDB (Power Distribution Board) for quadcopter and hexacopter drone with high efficiency switching BEC (Battery Eliminator Circuit).
- Develop of state of the art research and first stage design for solar panel cleaning robot.

*December 2015 - Present*

**Project Engineer as Freelancer, Upwork.com**

- Develop a complete project for the client needs.
- Optimization of cost and time.
- Management of time and budget between different projects at the same time.

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January 2016 – March 2016	<b>Teacher Assistant for Project Lab 3 EC3883, Simon Bolivar University</b> <ul style="list-style-type: none"> <li>• Supervision, debugging and consultant for student.</li> <li>• Projects in EC3883 dedicate to control non-electronic industrial variables, SCADA systems, control of actuators and supervisory central control.</li> </ul>
September 2008 – December 2015	<b>Computer Technician, Corporación Conecta</b> <ul style="list-style-type: none"> <li>• Computer repair, integration and problem debugging.</li> <li>• Mounting CCTV camera systems on a variety of environments.</li> <li>• Develop computer networks for enterprises.</li> </ul>
September 2013 – December 2015	<b>Research Assistant, Mechatronics Research and Development Group (MRDG), Simon Bolivar University</b> <ul style="list-style-type: none"> <li>• Assistance in the laboratories of the MRDG of the USB.</li> <li>• Working in several projects for the public and private industry.</li> <li>• Maintenance of the laboratory in the electronics field.</li> <li>• Developed a WordPress based webpage.</li> </ul>
April 2015 – July 2015	<b>Teacher Assistant for Industrial Electronic Systems Lab II EC2112, Simon Bolivar University</b> <ul style="list-style-type: none"> <li>• Supervision, debugging and consultant for student.</li> <li>• EC2112 deals with the operating principles of digital systems, acquisition and analog signal processing and study of the basis of electrical machines. All essential elements of modern industrial processes.</li> </ul>

## Memberships, Affiliations & Awards

- *Membership:* FutBot USB Students Association: Vice-president (2013-2014), President (2014 – 2015) and co-founder.
- *Membership:* Ruédala Simón (Encourage the use of bicycles as a mean of transportation in the community): Active member for a year (2013).
- *Award:* First place at the IEEE Open category in CCSBOTS 2013 Competition.
- *Award:* Participation on Latin American Robotics Competition in the team "Giatronica" in the category IEEE Open.

## Honours

- Honoric Mention in Degree work - Development of Telemetry System for Underwater Robot Teleoperation: *"Exceptionally good job given the workload, the level of detail and scope of the proposed project degree"*.

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## Skills

- Fluent Spanish and English professional competence.
- Creative problem solver, even in stressful environments.
- Strong teamwork aptitudes on multidisciplinary environments.
- Ability to learn new tasks quickly.
- Ability to make accurate decisions quickly.
- Ability to optimize budgets for projects.

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- Aware of the importance of documentation for scalability and continuity of developments.
  - Technical skills:
    - o Computing platforms.
    - o Operating systems.
    - o Simulation software.
    - o PCB manufacture.
    - o PCB design.
    - o Mechanical and electrical integration.
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### Areas of interest

- Power electronics.
  - Harvesting energy.
  - PCB design.
  - PCB manufacture.
  - Embedded systems.
  - IoT.
  - Mechatronics.
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### References

- Professor Ángel Terrones, *Simon Bolivar University*: [aterrones@usb.ve](mailto:aterrones@usb.ve)
- Professor Novel Certad, *Simon Bolivar University*: [ncertad@usb.ve](mailto:ncertad@usb.ve)
- Professor José Cappeletto, *Simon Bolivar University*: [cappelletto@usb.ve](mailto:cappelletto@usb.ve)
- Professor Gerardo Fernandez, *Simon Bolivar University*: [gfernandez@usb.ve](mailto:gfernandez@usb.ve)
- Professor Saúl Buitrago, *Simon Bolivar University*: [sbuitrago@usb.ve](mailto:sbuitrago@usb.ve)