

Rodrigo Cardenas

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PROJECTS

Welding Parameter Specifications System (VBA, SQL) | Proc. Eng. [video](#) | [source](#)

Historical data analysis to deduce optimal physical parameters for process control.

- Optimization focused on three aspects: electrical process parameters, physical tooling setup, historical success rates.
- A total of 52 variables were used in the analysis to generate an independent WPS Setup sheet for each product.

CAN/RTOS Robot (C, ARM Assembly Lang) | Student [video](#) | [source](#)

Built a robot running on two microcontrollers implementing a custom RTOS, CAN bus, and using four sensors for motion control

- Depth recognition, Color recognition, Motor control, and Real Time Operating System development.
- Integration of hardware(sensors, motors, wheels, etc.) with software controls.

Oscilloscope Remote Control (LabVIEW) | Research Assistant [picture](#) | [source](#)

Created a remote control interface for Tektronix oscilloscopes.

- Controls included the ability to remote trigger, record data, extract data, and setup.

Graphing Calculator (C, ARM Assembly Lang) | Student [picture](#) | [source](#)

Built a physical graphing calculator and wrote the software with a partner.

- Single function graphing capabilities.

SKILLS

C, Java, Ruby,Rails, JavaScript, jQuery, React.js, Flux, SQL, Git, HTML, CSS, VBA

EXPERIENCE

Maintenance/Warehouse Coordinator - Tenaris (2014 - 2015)

- Managed a total of 17 employees from two different teams.
- Implemented integration of SAP while reconciling physical inventory of over \$3.0M.
- Successfully integrated new ERW Mill, Power Substation, and Heat Treatment (~\$30M).

Global Trainee Engineer - Tenaris (2012 - 2014)

- Developed VBA tools for Budget management, KPI tracking, and Cost Analysis.
- Developed WPS System

EDUCATION

Web Development - App Academy (Spring 2016)

- Immersive software development course with focus on web development and agile methodologies.

BS - Electrical Engineering - *The University of Texas at Austin, 2012*

PORTFOLIO www.rcardenas.io • **GITHUB** RodCardenas • **LINKEDIN** <https://www.linkedin.com/in/rodrigoecardenas>