

## NATHAN REYES

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### EDUCATION

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#### Texas A&M University

Bachelor of Science, Electrical Engineering Major, Math Minor

College Station, TX

May 2006

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### WORK EXPERIENCE

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#### Open Source

*VCalendar: Calendar/Datepicker plugin for Vue.js*, <https://vcalendar.io>

Experience with learning the Vue plugin system and solving a variety of issues related to cross-platform and mobile environments, optimizing performance, issue tracking and collecting user feedback, API design, etc.

#### Part Time Web & Database Developer

Pampa, TX

*St. Matthews Day School*, <https://stmatthewsdayschool.org>

Developed a custom website for a private day school in Pampa, TX for use by parents and faculty managing calendar events, lunch menus and distributing files for administration purposes. Worked one on one with customer to deliver a reliable and attractive solution for managing multiple business processes.

**Technologies:** Vue, Vue Router, Vuex, SASS, REST API written in Express/Node, MongoDB, Mongoose (object relational mapper)

Deployed and managed on Digital Ocean server with SSL encryption

*The Well Pampa*, <http://www.thewellpampa.org/>

Designed and developed a website for a tutoring, robotics and homeschooling organization that advertises the unique services provided by this school. It also utilizes the Stripe library to serve as the store front for various services.

**Technologies:** Vue, Vue Router, Vuex, SASS, REST API written in Express/Node, Stripe integration, MongoDB with Mongoose

Deployed and managed on Digital Ocean server with SSL encryption

*Meals on Wheels*, <http://www.pampamealsonwheels.com/>

Built a site designed to support the everyday needs of this nonprofit organization. This site manages the collection of various online forms from volunteers and clients alike to improve operations and communications.

**Technologies:** ASP.NET MVC, Bootstrap, jQuery, SQL Server, Entity Framework, Facebook API integration for fetching and displaying page events and posts

#### Hunting Titan (Full Time)

*R&D Software/Firmware Developer*

Pampa, TX

Dec 2013–Apr 2016

- Develop client-side PC applications using Visual Studio/C#/WPF
- Develop firmware for various microchip controllers using MPLab/C/Assembly

- Design custom gauges, graphs, and switches in XAML/Code Behind
- Utilize MVVM for model binding (data, commands) and view model inter-messaging
- Design data storage strategies using SQL Server w/ Entity Framework, Local DB, XML, and text files
- Develop data viewer solutions to display reports and graphs using SQL Server Data
- Source control management using Visual Studio Online and TortoiseGit

#### *Major Projects*

- Lab test utility used by technicians for collection and display of tool data in real-time  
[http://www.hunting-intl.com/media/1977765/Titan\\_Instruments\\_GammaLab\\_Flyer.pdf](http://www.hunting-intl.com/media/1977765/Titan_Instruments_GammaLab_Flyer.pdf)
- Develop custom telemetry signal transmitter in firmware, as well as the software decoder
- Implement firmware and software libraries for USB and I2C communication protocols
- Intranet job search application for fast and flexible searching of jobs, tools, and repair data

#### **Bell Helicopter (Full Time)**

Amarillo, TX

*Senior Engineer, Avionics Systems*

Sep 2008–Dec 2013

- Lead engineer for H-1 Aircraft simulation, testing and integration lab
- Develop a networked database for logging and cost accounting of part failures in testing lab  
Design database in SQL Server for storing all part data, vendors, hours worked, test statuses  
Design forms & reports for tracking parts and component test results
- Develop and design simulation software for control of National Instruments hardware (PXI platform)  
Design application using C# and Measurement Studio from National Instruments  
Control of discrete inputs/outputs, AC and DC inputs/outputs, and various LVDT signals (~500 signals)

*Engineer, Electrical Install & Wiring*

Jun 2006–Sep 2008

- Determine root cause and corrective actions for aircraft wiring and installation failures
- Draft electrical install blueprints with 3D modeling/analysis software (UG)
- Develop networked database for tracking aircraft failures and repair documents

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#### **STRENGTHS**

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- Languages: C#, C, Javascript, CSS, SASS
- Web Stack: Vue, Vue Router, Vuex, React, HTML5, CSS, SASS
- Server Frameworks: Express, Feathersjs, ASP.NET MVC/Web API/Web Forms
- Database Technologies: MongoDB, Mongoose, SQL Server, Entity Framework
- Presenting in written form, including proposals, manuals and reports
- Working with team members to meet project requirements on a strict deadline
- Microsoft Office automation w/ VBA