## Nick A. Bild, M.S.

Groveland, FL 34736

#### nick.bild@gmail.com

https://github.com/nickbild https://nickbild79.firebaseapp.com

See the "Press" section below for a list of interesting projects I've been working on recently that have received significant media coverage.

#### Education

Master of Science - Medical and Bioinformatics, December, 2007.

Grand Valley State University, Allendale, MI.

- GPA: 3.97 / 4.0
- Outstanding Graduate Student Award (First in Class), awarded April 2008.

### **Bachelor of Science - Information Systems**, August, 2004.

Grand Valley State University, Allendale, MI.

• Dean's List - multiple semesters.

#### **Relevant Experience**

**Senior Software Engineer** for T-Mobile US (acquired Sprint), Maitland, FL. August 2020-Present.

Technical Solutions Engineer III for Sprint Corporation, Maitland, FL.

February 2020-August 2020.

Technical Solutions Engineer II for Sprint Corporation, Maitland, FL.

November 2018-February 2020.

Software Developer III for Sprint Corporation (via TEKsystems), Maitland, FL.

June 2018-November 2018.

- Led a team of developers; assigned tasks, monitored progress, reviewed code.
- Architected and developed large enterprise-scale applications in Python and Golang.
- Extended and debugged legacy applications in Perl.
- Designed and optimized SQL gueries for MariaDB, Oracle, and Vertica databases.
- Developer Dockerized applications for smooth deployment and shifting of resources.
- Worked on a team of ~40 software engineers in a GitLab CI/CD environment.

## Freelance Technical Writer

June 2020-Present.

https://www.hackster.io/news

**Staff Software Engineer** for Ocean Ridge Biosciences, Deerfield Beach, FL. December 2015-February 2018.

- Developed data analysis pipelines in Perl, Python, and R.
- Built pipelines to analyze biological data, including long RNA, noncoding-RNA, metagenomic, and xenograft data.
- Installed hardware and maintained two Sun Grid Engine clusters.
- Designed MySQL databases to manage large volumes of biological data and facilitate rapid data retrieval.
- Built public and intranet websites in PHP, Drupal, and Perl CGI.
- Developed custom web-based LIMS (Laboratory Information Management System) to

manage lab operations in PHP, MySQL, JavaScript/Ajax, and HTML5.

**Adjunct Professor** for Palm Beach State College, Palm Beach Gardens, FL. February 2015-December 2018.

- Taught BSC 2435 Introduction to Bioinformatics.
- Awarded "Rookie of the Year", February 2016.

**Bioinformatics Analyst III** for The Scripps Research Institute, Jupiter, FL. June 2014-December 2015.

- Developed standardized pipelines to analyze various data types, including RNA-seq, sRNA-seq, and ChIP-seq (Perl, Python, shell scripting).
- Built automated framework to transfer data from instruments (Illumina, SOLiD, Ion, etc.)
   to a cloud computing environment (Linux, Torque) and begin data analysis without human intervention.
- Created web-based application to track biological samples and inform automated pipelines of proper parameters and analysis methods (PHP, MySQL).
- Performed ad hoc analyses, via custom code and published tools, of many experiments for the Genomics Core and Cancer Biology departments.

## **Lead Software Developer** for iCare.com, LLC, Fort Lauderdale, FL. March 2012-June 2014.

- Developed new web-delivered, cloud-based EHR based on VA VistA EHR from ground up.
- Developed in GT.M, MUMPS, Javascript, HTML5, and Java.
- Analyzed and modified CPRS (Computerized Patient Record System) in Pascal.
- Installed/configured Linux services including OpenLDAP, memcached, and apache.
- Optimized, maintained, backed up, and recovered GT.M databases.
- Assigned tasks to--and assured code quality of--junior and remote software developers.

## **Senior Programmer Analyst** for NorthShore University HealthSystem, Skokie, IL. July 2011-March 2012.

- Epic Inpatient/Hospital Outpatient EMR programmer.
- Modified and troubleshot Programming Points and Workflow Engine Rules.
- Built a variety of inpatient-related Epic records.

# **Bioinformatics Programmer** for the University of Chicago, Chicago, IL. September 2008-July 2011.

- Developed bioinformatics applications in perl, python, and PHP.
- Created data analysis pipelines for the modENCODE and ENCODE projects (www.modencode.org; http://www.genome.gov/10005107).
- Developed ad hoc scripts for microarray (Agilent, Affymetrix) and sequencing (Illumina ChIP-seq, RNA-seq) data analysis in cloud-based computing environment.
- Developed pipelines for publishing microarray and sequencing data to GEO and other public repositories.
- Participated in development of a system for management/analysis of biological data (www.cistrack.org).
- Determined and implemented rules necessary for applications to comply with HIPAA.

# **Application Developer** for Family Research Council, Holland, MI. November 2004-September 2008.

- Developed large-scale web applications with Coldfusion, SQL, javascript, XML, and HTMI
- Developed Oracle applications with PL/SQL.

- Created and enforced best practices for software development.
- Gathered application requirements from non-technical staff.
- Trained other development staff proper Coldfusion and SQL coding techniques.
- Installed and maintained Linux and Windows servers.

## Bioinformatics Consultant for Arivium, Grand Rapids, MI.

May 2007-December 2007 (Internship).

- Developed C# applications for the interrogation/visualization of millions of electronic patient medical records.
- Created tools to analyze and extract data from many clinical data warehouses.
- Created custom extensions for SpotFire DXP to visualize clinical trial data.
- Researched CDISC/Janus standards for storing and submitting clinical trial data.

**Bioinformatics Research Assistant** for Van Andel Research Institute, Grand Rapids, MI. May 2007-August 2007 (Graduate School Project).

- Developed applications to support LC-MS data discovery projects.
- Researched various biological databases and created translation tools to integrate heterogeneous data sources.

**Database Analyst** for Annis Water Resources Institute, Muskegon, MI. June 2004-August 2004 (Contract).

- Reversed engineered the EPA's STORET application.
- Installed and administered large-scale Oracle 9i DBMS.

**Web Applications Developer** for Grand Valley State University, Allendale, MI. March 2004-June 2004.

- Developed applications with ColdFusion, JavaScript, and SQL.
- Implemented code in accordance with Fusebox methodology.
- Developed/maintained applications for massive university website.

**Software Developer/Network Administrator** for New Rules Marketing, Spring Lake, MI. September 2002-March 2004.

- Developed applications with PHP, mySQL, Visual Basic, and MS Access.
- Maintained networked Linux, Windows, and MacOS workstations/servers.
- Secured a mixed environment Internet connected LAN.
- Implemented new storage methods and procedures to protect stored data.
- Maintained large-format Encad printers.

### **Press**

Al-enabled glasses that act as a UI for the real world (<a href="https://github.com/nickbild/shaides">https://github.com/nickbild/shaides</a>).

- Won NVIDIA Embedded Project of the Month, September 2019 (<a href="https://developer.nvidia.com/embedded/community/jetson-projects#shaides">https://developer.nvidia.com/embedded/community/jetson-projects#shaides</a>)
- Runner Up in AARP Living in Motion contest, December 2019 (https://www.hackster.io/contests/aarp)
- https://tbtech.co/check-out-the-homemade-ai-shades-this-software-engineer/
- https://hackaday.com/2019/08/15/home-automation-at-a-glance-using-ai-glasses/
- <a href="https://blog.hackster.io/these-shaides-use-ai-to-detect-what-youre-gesturing-at-cf836cee4">https://blog.hackster.io/these-shaides-use-ai-to-detect-what-youre-gesturing-at-cf836cee4</a> 851
- https://nplus1.ru/news/2019/08/19/shaides

C64 Watch is a customized T-Watch 2020 that was inspired by the Commodore 64 computer. It features a C64 theme and a built-in BASIC interpreter (<a href="https://github.com/nickbild/c64\_watch">https://github.com/nickbild/c64\_watch</a>).

- https://gizmodo.com/im-lusting-after-this-custom-commodore-64-smartwatch-th-1847025 059
- https://www.gizmodo.ip/2021/06/commodore-64-watch.html
- <a href="https://www.gizmodo.com.au/2021/06/im-lusting-after-this-custom-commodore-64-smartw">https://www.gizmodo.com.au/2021/06/im-lusting-after-this-custom-commodore-64-smartw</a> atch-that-lets-vou-code-in-basic-right-on-vour-wrist/
- https://hackaday.com/2021/06/02/commodore-inspired-watch-puts-basic-on-your-wrist/
- <a href="https://www.wired.it/gadget/smartwatch/2021/06/09/c64-watch-smartwatch-commodore-6">https://www.wired.it/gadget/smartwatch/2021/06/09/c64-watch-smartwatch-commodore-6</a>
   4/
- <a href="https://www.inputmag.com/tech/this-commodore-64-themed-smartwatch-lets-you-code-with-a-flick-of-the-wrist">https://www.inputmag.com/tech/this-commodore-64-themed-smartwatch-lets-you-code-with-a-flick-of-the-wrist</a>
- https://blog.adafruit.com/2021/06/09/c64-watch-commodore-64-smartwatch-wearablewed nesday/

BrowZen correlates your emotional states with the web sites you visit to give you actionable insights about how you spend your time browsing the web (<a href="https://github.com/nickbild/browzen">https://github.com/nickbild/browzen</a>).

https://hackaday.com/2021/02/14/machine-learning-helps-you-track-your-internet-misery-index/

Speaker Snitch flashes a light when your smart speaker is sending data to the cloud (https://github.com/nickbild/speaker\_snitch).

https://hackaday.com/2020/12/09/speaker-snitch-tattles-on-privacy-leaks/

Tipper predicts if a pitch will be in or out of the strike zone in real time (<a href="https://github.com/nickbild/tipper">https://github.com/nickbild/tipper</a>).

- https://hackadav.com/2019/12/10/ai-knows-if-the-pitch-is-on-target-before-you-do/
- <a href="https://thenextweb.com/artificial-intelligence/2019/12/04/watch-performance-enhancing-ai-could-change-baseball-forever/">https://thenextweb.com/artificial-intelligence/2019/12/04/watch-performance-enhancing-ai-could-change-baseball-forever/</a>
- https://developer.nvidia.com/embedded/community/jetson-projects#tipper

Memory Pill passively records the last time a medication bottle was opened to prevent accidental over- and underdosing of medications (<a href="https://github.com/nickbild/memory\_pill">https://github.com/nickbild/memory\_pill</a>).

• https://www.hackster.io/nickbild/memory-pill-9f6b2e

Play the Atari 2600 with a laser gun (https://github.com/nickbild/laser\_blaster)!

<a href="https://hackaday.com/2021/06/03/adding-a-laser-blaster-to-classic-atari-2600-games-with-machine-vision/">https://hackaday.com/2021/06/03/adding-a-laser-blaster-to-classic-atari-2600-games-with-machine-vision/</a>

Smart glasses that selectively filter out excessively bright spots in real-time (https://github.com/nickbild/light\_brakes).

• https://hackaday.com/2019/10/22/the-futures-so-bright-i-gotta-wear-lcds/

Newrons - Smart glasses with a gentle memory assist. (https://github.com/nickbild/newrons).

- Runner Up in AARP Hacking Menopause contest, May 2020 (https://www.hackster.io/contests/aarpmenopause).
- https://blog.arduino.cc/2020/01/28/give-your-memory-a-boost-with-newrons/
- https://hackaday.com/2020/03/01/assistive-specs-help-jog-your-memory/

Play Arduboy games on the big screen with the Arduboy Home game console (https://github.com/nickbild/arduboy home).

https://hackaday.com/2021/06/01/arduboy-on-the-big-screen/

Freedom Shield was developed to protect the rights of individuals to peaceably assemble and petition their government (<a href="https://github.com/nickbild/freedom\_shield">https://github.com/nickbild/freedom\_shield</a>).

• https://hackaday.com/2020/02/28/using-ir-leds-to-hide-in-plain-sight/

Sentinel was designed to provide a subtle reminder not to touch your face. (https://github.com/nickbild/sentinel).

- https://hackadav.com/2020/03/09/a-reminder-not-to-touch-vour-face/
- <a href="https://blog.arduino.cc/2020/03/10/this-pair-of-arduino-glasses-stops-you-from-touching-y-our-face/">https://blog.arduino.cc/2020/03/10/this-pair-of-arduino-glasses-stops-you-from-touching-y-our-face/</a>
- <a href="https://blog.adafruit.com/2020/03/10/this-pair-of-arduino-glasses-aims-to-stop-you-from-to-uching-vour-face/">https://blog.adafruit.com/2020/03/10/this-pair-of-arduino-glasses-aims-to-stop-you-from-to-uching-vour-face/</a>
- <a href="https://www.electromaker.io/blog/article/coronavirus-inspires-maker-tech-innovation">https://www.electromaker.io/blog/article/coronavirus-inspires-maker-tech-innovation</a>
- <a href="https://www.hackster.io/videos/589">https://www.hackster.io/videos/589</a>
- https://m.habr.com/ru/news/t/491862/

Deep Clean flags potentially contaminated surfaces for deep cleaning to help prevent the spread of contagious disease. (https://github.com/nickbild/deepclean).

- https://hackaday.com/2020/04/07/machine-vision-keeps-track-of-grubby-hands/
- <a href="https://blog.adafruit.com/2020/04/03/deep-clean-monitoring-system-raspberry\_pi-piday-raspberrypi/">https://blog.adafruit.com/2020/04/03/deep-clean-monitoring-system-raspberry\_pi-piday-raspberrypi/</a>
- <a href="https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote">https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote</a> <a href="https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote">https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote</a> <a href="https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote">https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote</a> <a href="https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote">https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote</a> <a href="https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote">https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote</a> <a href="https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote">https://www.vision-systems.com/home/article/14174374/stereo-camera-system-flags-pote</a> <a href="https://www.vision-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-systems.com/home/article/14174374/stereo-camera-

Play gesture-controlled Pong with a Raspberry Pi Pico (<a href="https://github.com/nickbild/pico\_pong">https://github.com/nickbild/pico\_pong</a>)!

- https://hackaday.com/2021/05/13/pi-pico-project-plays-pong-perfectly/
- https://blog.adafruit.com/2021/05/14/pico-pong-raspberry\_pi-piday-raspberrypi/

Safe Meeting keeps an eye on you during your video conferences, and if it sees business-inappropriate attire, the video is immediately muted. (https://github.com/nickbild/safe\_meeting).

- https://hackaday.com/2020/06/03/machine-learning-takes-the-embarrassment-out-of-vide oconference-wardrobe-malfunctions/
- https://developer.nvidia.com/embedded/community/ietson-projects#safe\_meeting

Eyeglass-mounted device that can be configured to locate a specific type of object and track it with a laser (<a href="https://github.com/nickbild/artemis">https://github.com/nickbild/artemis</a>).

• https://hackaday.com/2019/12/07/upgrade-your-shades-to-find-lost-items/

Custom-built general purpose, programmable, 6502-based computer and operating system (https://github.com/nickbild/vectron 64).

- https://hackadav.com/2019/04/19/a-nearly-practical-6502-breadboard-computer/
- https://blog.adafruit.com/2019/04/09/from-the-forums-a-6502-based-retro-computer-buildvintagecomputing-retrocomputing-adafruit/
- http://www.electronics-lab.com/diy-programmable-6502-based-computer-operating-system/

The Vectron 65 is a 6502 CPU-based breadboard computer. It supports VGA output, keyboard input, boots into a BASIC interpreter, and has lots of GPIOs (<a href="https://github.com/nickbild/vectron\_65">https://github.com/nickbild/vectron\_65</a>).

https://hackadav.com/2020/11/16/vectron-adds-basic-and-christmas-tree-control/

Virtual Reality Peripheral for Vectron 64 (https://github.com/nickbild/vectron\_vr).

- https://hackadav.com/2019/06/23/vr-on-the-6502/
- <a href="https://www.eeweb.com/profile/max-maxfield/articles/omg-a-6502-based-virtual-reality-system">https://www.eeweb.com/profile/max-maxfield/articles/omg-a-6502-based-virtual-reality-system</a>
- <a href="https://blog.adafruit.com/2019/06/19/vectron-vr-6502-virtual-reality-vr-vintagecomputing-graphics-adafruit-fromtheforums-adafruit/">https://blog.adafruit.com/2019/06/19/vectron-vr-6502-virtual-reality-vr-vintagecomputing-graphics-adafruit-fromtheforums-adafruit/</a>

Train machines like it's 1979! Play Atari 2600 games with gestures (https://github.com/nickbild/vectron\_ai).

• https://hackaday.com/2020/04/22/machine-learning-algorithm-runs-on-a-breadboard-650 2/

Vectron Handheld is a retro handheld gaming console based on the 6502 CPU (https://github.com/nickbild/vectron\_handheld).

https://hackaday.com/2020/10/15/handheld-pong-on-a-6502/

Vectron VGA generates a 640x480@60Hz 3-bit color VGA signal and is designed to interface with the Vectron 64 6502-CPU based breadboard computer (<a href="https://github.com/nickbild/vectron\_vga">https://github.com/nickbild/vectron\_vga</a>).

https://www.hackster.io/nickbild/vectron-vga-c26e73

Play Doom on a giant screen using your body as the controller (https://github.com/nickbild/doom\_air).

- https://hackadav.com/2019/07/22/gesture-controlled-doom/
- https://www.eeweb.com/profile/max-maxfield/articles/playing-doom-on-a-giant-screen
- <a href="https://blog.hackster.io/use-ai-on-an-nvidia-jetson-nano-to-play-doom-using-full-body-gest-ures-e6facd7e57b7">https://blog.hackster.io/use-ai-on-an-nvidia-jetson-nano-to-play-doom-using-full-body-gest-ures-e6facd7e57b7</a>
- <a href="https://www.heise.de/make/meldung/Doom-mit-Gesten-steuern-dank-Jetson-Nano-und-Kuenstlicher-Intelligenz-4478114.html">https://www.heise.de/make/meldung/Doom-mit-Gesten-steuern-dank-Jetson-Nano-und-Kuenstlicher-Intelligenz-4478114.html</a>

MiniVGA - Easily generate a VGA signal for your Arduino projects with an FPGA (https://github.com/nickbild/fpga\_vga).

https://www.hackster.io/nickbild/minivga-216797

I was featured in the January 2020 issue of Practical Electronics magazine.

https://www.epemag.com/proi/0120.html

My projects ShAldes and Artemis were featured in NVIDIA CEO Jensen Huang's GTC 2020 keynote address.

https://www.youtube.com/watch?v=ncAW5Bdq8BE

I wrote, filmed, and starred in a Holiday advertisement for NVIDIA.

https://www.facebook.com/NVIDIAEmbedded/videos/2751673244889195

I hosted a Hack Chat titled "Ideas to Prototypes" for Hackaday.com.

- https://hackaday.com/2020/07/27/ideas-to-prototypes-hack-chat-with-nick-bild
- https://hackaday.io/event/171148-ideas-to-prototypes-hack-chat-with-nick-bild

I won the 2020 Spectacular Sensors Smackdown at Sensors Innovation Week Expo (Nov. 2020)

https://www.clivemaxfield.com/tension-mounts-as-sensor-smackdown-looms/

I won "Runner Up" in NXP Semiconductor's Crossover Code Challenge

https://www.hackster.io/contests/nxpcrossover

#### <u>Publications</u>

Gustavo J. Martinez, Joyce K. Hu, Renata M. Pereira, Jordan S. Crampton, Susan Togher, **Nicholas Bild**, Shane Crotty, and Anjana Rao. (2016). NFAT Transcription Factors Promote the Generation of Follicular Helper T Cells in Response to Acute Viral Infection. **The Journal of Immunology**, 196 (4).

Nègre N, Brown CD, Ma L, Bristow CA, Miller SW, Wagner U, Kheradpour P, Eaton ML, Loriaux P, Sealfon R, Li R, Ishii H, Spokony RF, Chen J, Hwang L, Chen C, Auburn RP, Davis MP, Domanus M, Shah PK, Morrison CA, Zieba J, Suchy S, Senderowicz L, Victorsen A, **Bild NA**, Grundstad AJ, Hanley D, MacAlpine DM, Mannervik M, Venken K, Bellen H, White R, Gerstein M, Russell S, Grossman RL, Ren B, Posakony JW, Kellis M, White KP. (2011). A Cis-Regulatory Map of the Drosophila Genome. **Nature**, 471, 527-531.

### **Presentations**

**Bild, N**. 2010, "Bio-Info-What-Now? IT Beyond TPS Reports", *Management of Information Systems*, Allendale, MI, Grand Valley State University.

**Bild, N**. 2010, "Bio-Info-What-Now? IT Beyond TPS Reports", *Internship Preparation*, Allendale, MI, Grand Valley State University.

**Bild, N**. 2009, "Re-analysis using Cistrack", *modENCODE Analysis Working Group*, Cambridge, MA, Massachusetts Institute of Technology.

#### **Conference Papers**

Elizabeth Bartom, Casey Brown, **Nick Bild**, Robert Grossman, Analysis pipelines for Next Generation Sequencing data. Feb 25, 2011, Chicago, IL, United Stated, Chicago Center for Systems Biology.

C. Frankenberger, S. Basu, **N. Bild**, A. Potti, M. Raponi, Y. Wang, D. G. Beer, J. Coon, P. Bonomi, J. A. Borgia, Expression profiles associated with disease progression in non-small cell lung cancer. Jun 4-8, 2010, Chicago, IL, United States. American Society of Clinical Oncology.

#### Selected Academic Research Projects

#### ClinicalTrials.gov Data Extraction

Arivium

- Created a means by which to extract all data from the clinicaltrials.gov database programmatically.
- Designed and built a database structure appropriate for storing a local copy of the data.

#### **GEMS Silhouette**

Arivium

- Assisted in the development of a large-scale web application designed to visualize data from millions of clinical trial records.
- Application has been subsequently licensed to multinational pharmaceutical companies for use in research and development.

#### **GeneTiles: Subsequence Density Visualizer**

Grand Valley State University

- Developed a novel bioinformatics application to analyze the relative density of repeating residues (amino acids or nucleotides) at locations along the entire biological sequence.
- Tool useful for visualizing short, non-specific restriction enzyme digest sites.

# Parallelized Algorithm for Edge Detection in Raster Images of Biological Structures Grand Valley State University

• Developed a high performance, multi-threaded algorithm for detecting biological structures of varying morphologies in image files.

### **Honors / Memberships**

- Won NVIDIA Embedded Project of the Month (https://developer.nvidia.com/embedded/community/jetson-projects#shaides). September 2019.
- Named "Runner Up" in AARP Hacking Menopause contest for my project Newrons (https://www.hackster.io/contests/aarpmenopause). May 2020.
- I won "Runner Up" in NXP Semiconductor's Crossover Code Challenge (https://www.hackster.io/contests/nxpcrossover). March 2020.
- Named "Runner Up" in AARP Living in Motion contest for my project ShAldes (https://www.hackster.io/contests/aarp). December 2019.
- I won the 2020 Spectacular Sensors Smackdown at Sensors Innovation Week Expo. November 2020.
- Finished 32nd out of 3,325 participants in the 2016 National Security Agency Codebreaker Challenge. January 2017.
- Palm Beach State College, Rookie of the Year, awarded February 2016.
- Grand Valley State University, Outstanding Graduate Student Award (First in Class), awarded April 2008.
- United States Parachute Association, licensed skydiver (A-52296), awarded September 2006.

## **Professional Certifications**

- Certificate of Study in Christian Apologetics. Biola University, November 2014.
- EpicCare Inpatient Procedure Orders Certification (Epic 2010), November 2011.
- EpicCare Inpatient Decision Support Certification (Epic 2010), November 2011.

#### **Volunteer Work**

- Food Packager, Kids Against Hunger. October 2012.
- MediaShout Technician, Community Christian Church. Tamarac, FL. October 2012-June 2014.
- ProPresenter Technician, The Grove Church, Clermont, FL. May 2017-Present.