**RYAN ERICKSON**

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PROFESSIONAL PROFILE

Passionate about exploring and creating software to improve business efficiencies using strong interpersonal skills as demonstrated by:

* 10+ years working in engineering education roles, leading peers, professionals, and students through collaborative work to meet significant milestones and achieve rewarding goals
* 6+ years researching, developing, and teaching Science, Technology, Engineering, and Mathematics (STEM) curriculum to both students and educators
* 2+ years coordinating and leading the Makerspace classroom, introducing students to the most current technology
* 1+ year learning, exploring, and utilizing self-taught programming languages and tools

KEY SKILLS

* Languages: Python - JavaScript - HTML - CSS -
* Tools and Frameworks: PostgreSQL PyCharm - Heroku - Bootstrap
* Proficient in CAD programs: AutoDesk Fusion 360, OnShape, TinkerCAD

WEB PROJECTS

**POLITICALHANGMAN.COM**

* Classic “Hangman” with a new twist
* Utilizes politicians’ most recent Tweets as the mystery phrases to be uncovered
* Used: Python, Postgres, Flask, Twitter API, Bootsrap, Heroku

**THWACK.IO**

* Recreation of the popular game “Pong” with the introduction of Side A vs. Side B competition
* Both desktop and mobile friendly
* Used: Javascript, CSS3, HTML5, Heroku

**ALERTED.IO (currently developing)**

* Weather alerting application
* User identifies specific weather parameters that will initiate a SMS message alert to their mobile phone
* Used: Python, Flask, Postgres, Heroku, Bootsrap, WeatherUnderground API, Twillio API

GITHUB PROJECTS

**HANGMAN SOLVER**

* Solving Algorithm for Political Hangman
* Achieved ~80% accuracy for guessing unknown phrases
* Used: Python, Postgres, NLTK library

WORK EXPERIENCE

**Educational Consultant June 2016 – Present**

*Stratasys and Makerbot Eden Prairie, Minnesota*

* Developed technology education content to meet annual Sales and Marketing goals
* Presented current technology and educational content at National Science and Technology Education Conferences in 2015, 2016, and 2017
* Designed and hosted 3DP webinars for Stratasys, Makerbot, and key channel partners
* Member of Stratasys Educational Advisory Board

**Makerspace Coordinator July 2015 – Present**

*Independent School District 196 Apple Valley, Minnesota*

* Pioneered the first District 196 Makerspace – a classroom where students are introduced to, and have the opportunity to utilize, innovative technologies (programming, CADing, robotics, graphic design, etc.) to prepare them for STEM careers in the future
* Created the Education 3D Printing Guide and presented at TIES 2015
* Developed and taught coding curriculum, teaching students the basics of statically typed languages
* Implemented the use of an Augmented Reality Sandbox using Ubuntu and compiled on Unix CLI

**Engineering Teacher February 2012 – June 2015**

*Independent School District 625 St. Paul, Minnesota*

* Collaborated with the district-wide science educators to create the K-5 Curriculum and Standards Guide
* Created and executed STEM curriculum, tailoring content to fit students’ educational needs

**Chinook Helicopter Flight Engineer January 2007 – January 2013**

*Minnesota Army National Guard St. Paul, Minnesota*

* Maintained Chinook Helicopter integrated systems to sustain flight readiness
* Deployed to Iraq in support of Operation New Dawn from November 2010 – November 2011
* Flew over 500 hours in support of Operation New Dawn

EDUCATION

**Masters of Science in Educational Technologies Graduated January 2017**

*Concordia University St. Paul, Minnesota*

**Bachelor of Arts in Elementary Education Graduated May 2010**

*Bethel University St. Paul, Minnesota*

CERTIFICATIONS AND AWARDS

**MN Army National Guard Soldier of the Year Received May 2008**