

David W. Gibbons

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EDUCATION

Penn State Erie, The Behrend College
Electrical and Computer Engineering Technology, Bachelor of Science

GPA: 2.90
Spring 2017

WORK EXPERIENCE

- Senior Computer Consultant** – Penn State Erie, The Behrend College **Dec 2013 – Present**
- Oversee the operation of labs across campus, their staff, and the troubleshooting and repair of student computers.
- Residence Hall Network Technician** – Penn State Erie, The Behrend College **Dec 2014 – Present**
- Assist residents with maintaining a safe network tailored to their needs and troubleshooting connections.
- Freshman Interest Group Mentor** – Penn State Erie, The Behrend College **May 2014 – Dec 2014**
- Assisted freshmen with the transition to college life offering study sessions and social programs.
- S.T.E.M. Director and Program Commissioner** – Resica Falls Scout Reservation **Jun 2009 – Aug 2015**
- Lead a team of over one hundred staff members in developing and executing a S.T.E.M. based camp program.

LEADERSHIP & SERVICE

- Adult Adviser, Communications Committee** – Unami Lodge One, Cradle of Liberty Council B.S.A.
- Advise a team of youth volunteers responsible for all of the organization's electronic communications.

TECHNICAL EXPERIENCE

- Amateur Radio Repeater** **2015**
- Designed a repeater system that allowed point-to-point communication across Resica Falls Scout Reservation.
- UnamiLodge.org Content Management Service** **2014**
- Designed and built a custom Content Management Service to allow those unfamiliar with HTML, CSS and PHP the ability to edit pages on the lodge website.
- SMS Based Emergency Notification System** **2013**
- Created and implemented an SMS based mass messaging system for Resica Falls Scout Reservation. The SMS Service has succeeded in giving camp leadership a convenient way to share information.
- Amateur Radio Station** **2013**
- Designed an amateur radio station and matching course to teach Radio Merit Badge.
- Introductory Soldering Kit** **2012**
- Wrote software for custom designed electronics kit and developed course material to teach Electronics Merit Badge; More than 1,500 units have been produced.
- Thomas J. Richards Arena Audio / Visual** **2012**
- Designed, implemented and maintained an audio / visual system for a newly constructed Arena at Resica Falls Scout Reservation integrating lighting, sound and projection.

TECHNICAL SKILLS

Operating Systems: GNU / Linux (Primarily Ubuntu and Raspbian), Windows, OSX
Software & Development Tools: Wireshark, MATLAB, AutoCAD, RSLogix 500, OrCad PSPICE, Arduino, MPLAB, Apache / Nginx, Git, Visual Studio, Microsoft Office / LibreOffice / Google Docs
FCC Licensed Amateur Radio Operator
Hardware Platforms: Arduino / AVR, PIC, Raspberry Pi (ARM based SBC), Allen-Bradley MicroLogix 1000
Languages & Markup: C / C++, PHP5, MySQL, HTML5 / CSS

AWARDS AND RECOGNITION

Boy Scouts of America: Eagle Scout, Vigil Honor, Charles J. Benshetler Spirit of Camp Leadership Award