

# Patrick McGuire

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## About Me

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I am a customer-focused IT professional with a love of tinkering and nature. I am also a hard working, quick learner with a knack for problem-solving and a keen attention to detail.

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## IT Skills

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### **OS Administration**

- Linux: Advanced
  - CentOS/Fedora/RedHat
  - Debian/Ubuntu
  - openSUSE
  - Arch
- Windows: Advanced
  - XP/7/8.1/10
  - Server 2012/2019
- macOS: Advanced
- FreeBSD: Limited
- Ansible for deployment and fleet administration
- Installation scripting

### **Software**

- VoIP: Asterisk/FreePBX
- DB: MariaDB/MySQL, SQL
- Remote Desktop: Zoom, WebEX, GlobalMeet, GotoMeeting, AnyDesk, TeamViewer, Windows RDP
- Web Design/CMS: WordPress, Drupal, Mediawiki
- Remote Headless: Putty suite (Pageant, Puttygen), OpenSSH, OpenVPN
- Virtual Machines: VMWare/vSphere/ESXi/vCenter, KVM/QEMU, Docker
- Collaboration/Project Management: git/GitHub, G Suite, Asana, Zoho Desk, Slack
- Database Management: SQLyog, HeidiSQL, mysql cli

- OpenVPN
- Network Monitoring: WireShark
- Serial Communication: ArduinoIDE, Putty
- Home Automation: openHAB, HomeKit, Tasmota firmware

### **Hardware**

- Microprocessors: ARM, ATmega, ESP
- Basic AC/DC Circuitry
- A/V Wiring
- Modules: DC/Servo Motor Control, LED Drivers, Sensors, Switches, etc.
- Soldering

### **Server/Client Deployment and Administration**

- Ansible
- SSH/Telnet
- SMTP (sendmail/postfix)
- RDP/VNC/SPICE
- SMB/FTP/SFTP/TFTP/PXE
- VoIP/PBX
- NTP
- DNS/VPN/DHCP
- MQTT
- DLNA/NAS
- HTTP (Apache2/nginx/caddy)

### **Scripting and Coding**

- Bash/zsh/sh/awk/sed
- Asterisk dialplan
- Arduino programming language
- Python3.7+

----- **Relevant Experience** -----

**2021-Current .....Project Owner, BirdNET-system**

BirdNET-system simplifies turning Raspberry Pi 4B devices into avian acoustic monitoring systems to aid researchers and citizen scientists in actively collecting and analyzing data for a variety of purposes. It leverages the opensource BirdNET DNN model for species detection. I maintain the repository and all documentation, including its Wiki. I have provided remote support for this project to users in the U.S., Germany, Austria, and South Africa.

**2018-Current .....Freelance IT, Self-Employed; Charlotte, NC**

*Completed projects include:*

- Customized and automated LED lighting and watering systems
- Home automation systems with web interfaces and iOS/Siri support
- Home entertainment systems with Spotify/Airplay/Chromecast support
- Automated backup servers for Unix-like operating systems including macOS
- Full LAMP stack WordPress site creation, administration, and hosting (see <https://pmcgui.xyz>)
- FreePBX/FusionPBX VoIP servers
- SSH/SFTP and Samba servers

*Services include:*

- Website, email and webmail hosting
- Network setup, security, and troubleshooting
- Linux administration training
- Hardware repairs and parts replacement for a myriad of devices

**2019-June 2020.....System Support Specialist, Percipia; Chicago, IL**

Percipia provides on-premise and SaaS PBX and CMSs for VoIP/PMS integration and interfacing for resorts and casinos.

*Completed projects include:*

- Full on-site production installations with PMS and Hospitality integrations
- On-site production upgrades, new integrations, and multi-vendor troubleshooting
- Multiple in-house lab environments for testing and training
- Internal Wiki branch creation of "Advanced Asterisk Configuration w/ Cisco CallManager CDR Integration," "New-Hire Crash Course," and full document updates for "ADB, Unifi Controller, and Percipia CMS"
- Contributed code blocks for the HA server installations

*Responsibilities include:*

- Production installtion

- Development testing
- Providing prompt and thorough technical support to clients through the HelpDesk service ticket system per client SLA
- Regular server updates, backups, and patches for +80 clients
- Routine testing of new code, providing bug-reports when necessary
- Server hardware assembly and testing
- On-call, after-hours support per client SLA

**2019-June 2020...Consultant, Bubble Health; Chicago, IL**

Bubble Health is a start up which aims to allow people to age gracefully in their homes through advanced biometric and environmental monitoring. My contributions were in research and development for small sensor technology.

**2017-2019.....Key Holder, Camper; Chicago, IL**

**2016-2017.....Sales Floor Manager, Banana Republic; Atlanta, GA**

**2015.....Custom Clothier, Q Clothier; Atlanta, GA**

**2014.....Assistant Manager, Porsche Design; Charlotte, NC**

**2013.....Sales Associate, Louis Vuitton; Charlotte, NC**

----- **Education** -----

Appalachian State University 2008-2012 BA English; degree not completed

----- **References** -----

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