John Geddes

AV and Software Engineer
Chicago, IL 60618 · (612) 790-3691 · johngeddes@pm.me · johngeddes.org · linkedin.com/in/therealjohngeddes

SUMMARY

AV and software engineer with a Computer Science degree. Designed and built Census, the asset management platform that tracks all 48,243 IT assets at The Aspen Group and saves its team about 314 hours a month. In AV since 2021, now supporting 88+ Logitech rooms.

SKILLS

AV: Q-SYS, Crestron, Neat, Logitech, Lenovo ThinkSmart, Biamp Tesira, Shure, Cisco, Microsoft Teams, Zoom, Webex
IT and endpoints: Microsoft Intune, Jamf, Microsoft Entra ID (Azure Active Directory), ServiceNow
Software: TypeScript, JavaScript, React, React Native, Expo, Node.js, Express, SQL
Cloud and data: Google Cloud Run, Cloud SQL (MySQL), Firebase, Firestore, Docker, GitLab CI

WORK EXPERIENCE

Senior Audio Visual Engineer
The Aspen Group (TAG) · Chicago, IL — Sep 2025 to Present

- Built Census, the asset management platform where TAG tracks all 48,243 of its IT assets. It reconciles 14 outside systems into **one record per asset**, and 36 people use it each week.
- Designed the onboarding, shipping, returns and chargeback processes Census runs, and automated enough of them to **give the team back about 314 hours a month**.
- Wrote Census in React 19 and TypeScript with an Express gateway, MySQL on Cloud SQL and nightly jobs on Google Cloud Run: 228 API routes, 716 test files.
- Started Census in January 2026 and moved the team onto it fully that October, when 11,942 changes went through it.
- **Upgraded four 20+ person meeting rooms to Neat** and **rebuilt the boardroom** from Crestron and Q-SYS to Neat and Q-SYS with 360-degree cameras.
- **Repaired and upgraded six divisible Q-SYS and Crestron training rooms** that hold 120+ people.
- Support 88+ Logitech meeting rooms and Shure microphone systems across the TAG network and handle AV and endpoint problems for the C-Suite directly.
- Train TAG's five-person IT team in AV and administer Microsoft Intune, Jamf, ServiceNow and Entra ID.

Audio Visual Specialist II
Discover · Chicago, IL — Feb 2025 to Sep 2025

- Ran break/fix for 568+ meeting rooms at six sites in the US and abroad: Cisco, Logitech and Lenovo ThinkSmart systems on Microsoft Teams, with Shure microphones.
- Led and mentored a team of five Level 1 technicians.
- Installed and programmed Crestron, Q-SYS and Biamp systems and the networking behind them.
- Built a room-check app that **replaced the manual round**, plus an inventory tool, in Power Apps, Power Automate and Power BI.

Audio Visual Technician Tier 2
Abbott · North Chicago, IL — Oct 2024 to Feb 2025

- Serviced Cisco rooms at five Chicago-area sites, 160+ in all, fitted with Biamp, QSC, Shure and ClickShare.
- Monitored room health in Crestron XiO, Q-SYS Designer, Vyopta and ThousandEyes to **catch faults before users reported them**.
- Tracked AV assets against the ServiceNow CMDB to keep inventory records accurate.

AV Support Specialist
Kirkland & Ellis · Chicago, IL — Mar 2024 to Jun 2024

- Configured Cisco, Logitech and Crestron systems with Shure microphones for about 144 meeting rooms in one building.
- Wrote Excel VBA macros for data transfers and room testing, which **removed a manual step that caused errors**.

Audio Visual Technician

Loyola University Chicago · Chicago, IL · Part-time — Jan 2021 to May 2023

- Ran AV for six or seven campus events a week on analog mixers, Crestron systems and projectors.
- Configured and troubleshot Microsoft Teams and Zoom for video conferencing across campus.

Computer Science Intern

Brag House · Part-time — Jan 2022 to May 2022

- Developed front-end features for the company's iOS app and website in React Native, React, HTML and CSS.
- Designed and implemented the Brago game inside the iOS app, then redesigned the app's look in Figma.

Software Intern

TLC MilliMeter Wave Products · Minneapolis, MN — Jan 2020 to Aug 2020

- **Moved the company from an on-site code repository to Bitbucket** and trained staff on Git so the switch held.
- Flew drones for a US Air Force collaboration on a radar system for identifying hostile drones.

PROJECTS

Cipher Tracker — cipher-app.org

React Native health tracker for iOS and Android that encrypts every entry on the phone with AES-256, so the server holds only ciphertext. Lock-screen timers in Swift and Kotlin, 3,822 passing tests. Being prepared for the App Store.

Rambler Registrar — www.ramblerregistrar.com

Course scheduler for Loyola students, built on Expo, Express and Puppeteer. Builds every conflict-free timetable from up to eight courses and scores each one, walking time between buildings included. Covers 2,082 courses.

Paper Trail — papertrail.company

Budgeting tool that runs only in the browser. Reads PDF, CSV and OFX statements, encrypts them in IndexedDB with AES-GCM, and makes no network requests. 102 tests.

EDUCATION

Loyola University Chicago

Bachelor of Science in Computer Science, Minor in Philosophy
Student Government representative for the Computer Science department.