

BYITL, LLC Capability Statement

We build systems that check their own work. BYITL is a Charlotte engineering studio that builds AI agent systems and hardware prototypes. Every engagement ships with the test that proves it works.

Company data

- **Legal name:** BYITL, LLC
- **UEI:** J1HFG9GT6CR8
- **CAGE:** 93WB5
- **SAM.gov status:** Active (All Awards)
- **Address:** 14606 Vaughan Drive, Charlotte, NC 28273
- **Established:** 2021 (NC LLC, SOSID 2168325)
- **Business type:** Small business; minority-owned; self-certified Small Disadvantaged Business (SAM.gov)
- **Local vendor IDs:** Mecklenburg County VS016937; City of Charlotte SUP102717; NC eVP 4060739
- **Payment:** ACH, government purchase card

NAICS codes

- 541511 Custom Computer Programming Services (primary)
- 541512 Computer Systems Design Services
- 541330 Engineering Services
- 541420 Industrial Design Services
- 541715 Research and Development in the Physical, Engineering, and Life Sciences

PSC: DA01, R425

Core competencies

- **AI agent and workflow development.** We automate document-heavy processes such as intake, extraction, drafting and review. Each workflow has written pass/fail criteria agreed before any code is written, an automated QA step, and human approval.
- **Verified delivery.** Every pipeline runs as Maker, then QA, then Reviewer. A deterministic QA engine returns measured PASS/FAIL results, and an independent reviewer checks only after QA passes. The client keeps the test suite.
- **Hardware prototyping.** We take a device from idea to a working unit: KiCad PCB design (Gerbers, BOM, pick-and-place), ESP-IDF firmware for the ESP32 family, and 3D-printed or laser-cut enclosures (STL and STEP files). One assembled, flashed and tested unit is included.
- **Data engineering and cloud.** Deep background in AWS, Azure and SQL Server data platforms.

Differentiators

- Fixed-price, fixed-scope work: no hourly billing and no retainers.
- Acceptance criteria are written down before work starts, and the client keeps the tests that prove delivery.
- One accountable engineering lead from scoping through handoff.
- Local to Charlotte and Mecklenburg County for on-site discovery and demos.

Past performance

- **HC-01 controller (internal R&D):** a custom ESP32 board taken through rev E, with ESP-IDF firmware and a laser-cut enclosure, all verified against measured QA gates.
- **Agent pipelines (internal):** a 7-agent hardware design pipeline (PCB, enclosure and firmware) and a 5-agent product research pipeline.
- **Commercial web development (2025):** custom website build for a private-sector client.

Contact

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