WORK LOG

Project: Monroe Resource Hub   **School:** Central Academy of Technology and Arts

Organization: TSA   **Date Range:** January 2025 - January 2026

Project Summary

The Monroe Resource Hub is a comprehensive community platform designed to connect residents of Monroe, North Carolina with vital resources, services, and opportunities. The project includes a resource directory, AI-powered resume builder, job application assistant, community events calendar, and volunteer opportunities.

Work Log Entries

Project Planning & Research

Date: January 2025

Time Spent: 15 hours

Team Members: All team members

Tasks Completed:

- Conducted community needs assessment
- Researched existing community resource platforms
- Identified key features and functionality requirements
- Created project timeline and milestones
- Selected technology stack (Next.js, Supabase, Tailwind CSS)

Outcomes: Established project scope and technical requirements

UI/UX Design & Wireframing

Date: February 2025

Time Spent: 20 hours

Team Members: Design team

Tasks Completed:

- Created wireframes for all main pages
- Designed color scheme and branding
- Created custom logo design
- Designed responsive layouts for mobile and desktop
- Established design system and component library

Outcomes: Complete design system and visual mockups

Database Setup & Backend Development

Date: March-April 2025

Time Spent: 25 hours

Team Members: Backend team

Tasks Completed:

- Designed database schema for resources, events, users
- Set up Supabase project and database
- Implemented authentication system
- Created API routes for resource management
- Set up Row Level Security (RLS) policies
- Configured admin dashboard functionality

Outcomes: Fully functional backend with secure authentication

Frontend Development - Core Pages

Date: May-June 2025

Time Spent: 30 hours

Team Members: Frontend team

Tasks Completed:

- Built homepage with hero section and categories
- Created resource directory with search and filters
- Developed resource detail pages
- Built events calendar interface
- Created about page and contact forms
- Implemented responsive navigation and footer

Outcomes: Complete user-facing pages and navigation

Career Center Development

Date: July-September 2025

Time Spent: 35 hours

Team Members: AI/Backend team

Tasks Completed:

- Integrated Google Gemini AI API
- Built AI-powered resume builder with templates
- Created job application assistant
- Developed local job board
- Implemented PDF export functionality
- Created job search and filtering features

Outcomes: Fully functional career center with AI features

Admin Dashboard & Resource Management

Date: October 2025

Time Spent: 20 hours

Team Members: Backend team

Tasks Completed:

- Created admin dashboard interface
- Implemented resource approval system
- Built resource submission form
- Created user management features
- Developed analytics and reporting

Outcomes: Complete administrative tools

Testing & Quality Assurance

Date: November 2025

Time Spent: 18 hours

Team Members: All team members

Tasks Completed:

- Conducted cross-browser testing (Chrome, Firefox, Edge)
- Tested responsive design on multiple devices
- Performed security testing and vulnerability scans
- Tested all user flows and features
- Fixed bugs and performance issues
- Validated accessibility compliance

Outcomes: Stable, tested, and secure application

Content Population & Data Entry

Date: December 2025

Time Spent: 15 hours

Team Members: Content team

Tasks Completed:

- Researched and added 50+ community resources
- Organized resources by category
- Added event listings and calendar entries
- Created job listings
- Wrote content for all pages

Outcomes: Fully populated database with real data

Documentation & Final Preparation

Date: January 2026

Time Spent: 12 hours

Team Members: All team members

Tasks Completed:

- Created reference page with all sources
- Completed student copyright checklist
- Documented all work log entries
- Prepared presentation materials
- Created user documentation and guides
- Final review and quality check

Outcomes: Complete project documentation

Total Time Summary

Phase	Hours	Team Members
Planning & Research	15	All
Design & Wireframing	20	Design Team
Database & Backend	25	Backend Team
Frontend Development	30	Frontend Team
Career Center	35	AI/Backend Team
Admin Dashboard	20	Backend Team
Testing & QA	18	All
Content Population	15	Content Team
Documentation	12	All
Total	**190 hours**	**25+ students**

Team Contributions

Note: This project was completed collaboratively by all members of the Central Academy of Technology and Arts TSA Chapter. Work was distributed based on individual strengths and interests, with regular team meetings to ensure coordination and quality throughout the development process.

Project Completion Date:

January 2026

Status: Completed and deployed

Deployment: Vercel platform

URL: https://monroeresourcehub.org