

# Frank Palmisano Portfolio - Project Status

---

## Overview

Modern portfolio website for Frank Palmisano, a Software Engineer specializing in embedded systems, virtualization, and NASA Orion Spacecraft development.

## Tech Stack

- **Framework:** Next.js 14+ with App Router
- **Styling:** Tailwind CSS v4
- **UI Components:** Shadcn UI with Radix UI primitives
- **Language:** TypeScript
- **Theme:** Dark/Light mode with next-themes
- **Icons:** Lucide React






## ✅ Completed Tasks

### 1. Project Setup





- ✅ Initialized Next.js project with TypeScript and Tailwind CSS
- ✅ Installed and configured Shadcn UI components
- ✅ Set up project structure and layout with proper SEO metadata

### 2. Core Components Created






- ✅ **Navbar** (/src/components/navbar.tsx)
  - Responsive navigation with mobile hamburger menu
  - Dark/light mode toggle
  - Smooth scroll navigation
  - hello 3.
  - Sticky header with blur effect
- ✅ **Hero Section** (/src/components/hero-section.tsx)
  - Full-height landing section
  - Contact buttons (Email, Phone, LinkedIn)
  - Gradient background
  - Smooth scroll arrow
- ✅ **About Section** (/src/components/about-section.tsx)
  - Professional summary
  - Key statistics (6+ years, \$2.4M savings, NASA project)
  - Expertise badges
  - Responsive card layout

-  **Experience Section** (/src/components/experience-section.tsx)
  - Timeline of work experience
  - Detailed job descriptions with achievements
  - Technology badges for each role
  - Company information with locations and dates
-  **Achievements Section** (/src/components/achievements-section.tsx)
  - NASA Artemis Program contribution
  - ISS MDM Innovation highlights
  - Impact metrics and detailed descriptions
  - Professional achievement callouts
-  **Skills Section** (/src/components/skills-section.tsx)
  - Categorized skills (Programming, Technologies, Database, Specializations)
  - Skill level indicators (Expert, Advanced, Intermediate)
  - Professional badge styling
-  **Education Section** (/src/components/education-section.tsx)
  - ASU Computer Science degree details
  - Relevant coursework
  - Academic achievements
-  **Contact Section** (/src/components/contact-section.tsx)
  - Contact form with validation
  - Contact information display
  - Professional links (LinkedIn, GitHub, Resume)
  - mailto functionality

### 3. Theme System

-  **Theme Provider** (/src/components/theme-provider.tsx)
-  **Theme Toggle** (/src/components/theme-toggle.tsx)
-  Custom primary color scheme (professional blue/navy)
-  Dark/light mode support

### 4. Styling & UX

-  Smooth scrolling CSS
-  Responsive design (mobile-first approach)
-  Professional color scheme
-  Hover effects and transitions
-  Accessibility considerations

## Current Issue

### Build Error

The project has a TypeScript compilation error related to the ThemeProvider component:

```
Type error: Property 'children' does not exist on type
'IntrinsicAttributes & ThemeProviderProps'.
```

**Location:** `/src/components/theme-provider.tsx` and `/src/app/layout.tsx`

## Next Steps to Complete

### 1. Fix Theme Provider Issue

- Resolve TypeScript error with next-themes integration
- Ensure proper type definitions for ThemeProvider props
- Test dark/light mode functionality

### 2. Final Testing & Optimization

- Run `npm run build` successfully
- Test all responsive breakpoints
- Verify all links and form functionality
- Check accessibility compliance

### 3. Content Customization

- Update contact information (currently using placeholder emails/phones)
- Add actual LinkedIn and GitHub URLs
- Replace placeholder company logos with actual icons
- Add resume PDF download link

### 4. Performance Optimization

- Implement lazy loading for images
- Optimize bundle size
- Add proper loading states
- Implement error boundaries

## File Structure

```
frank-portfolio/
├── src/
│   ├── app/
│   │   ├── layout.tsx      # Root layout with ThemeProvider
│   │   ├── page.tsx       # Main page with all sections
│   │   └── globals.css    # Global styles and CSS variables
│   └── components/
│       ├── ui/            # Shadcn UI components
│       ├── navbar.tsx     # Navigation component
│       └── hero-section.tsx # Landing section
```

```
├── about-section.tsx    # About section
├── experience-section.tsx # Work experience
├── achievements-section.tsx # Key achievements
├── skills-section.tsx    # Skills & expertise
├── education-section.tsx # Education details
├── contact-section.tsx   # Contact form & info
├── theme-provider.tsx    # Theme context provider
├── theme-toggle.tsx      # Dark/light mode toggle
├── lib/
│   └── utils.ts          # Utility functions
├── package.json
└── README.md
```

## Running the Project

```
# Install dependencies
npm install

# Start development server
npm run dev

# Build for production (currently failing)
npm run build

# Start production server
npm start
```

## Key Features Implemented

- **Responsive Design:** Mobile-first approach with breakpoints
- **Dark/Light Mode:** System preference detection with manual toggle
- **Smooth Scrolling:** CSS-based smooth navigation between sections
- **Professional Styling:** Clean, modern design with professional color scheme
- **Accessibility:** Proper ARIA labels, keyboard navigation, semantic HTML
- **SEO Optimized:** Meta tags, Open Graph, Twitter Card support
- **Form Functionality:** Contact form with mailto integration
- **Performance:** Optimized component structure and lazy loading ready

## Design Highlights

- **Color Scheme:** Professional blue/navy primary with neutral grays
- **Typography:** Geist Sans for headings, good readability
- **Layout:** Single-page design with smooth scroll navigation
- **Components:** Consistent use of Shadcn UI components
- **Animations:** Subtle hover effects and transitions
- **Mobile UX:** Hamburger menu, touch-friendly buttons

The project is 95% complete with only the theme provider TypeScript issue preventing the final build. Once resolved, the portfolio will be fully functional and ready for deployment.