HAVEN**TECHNIK**

Offering Summary:

Consultation Services - System design and development of embedded systems.

PCB Design - Schematic, Layout, Manufacture & Assembly & Testing

Areas of Know How

- PLC Automation
- 8 BIT Embedded Systems
- IOT (ETH, WIFI)
- Instrumentation
- Environmental Control & Monitoring

Customized Software

PC Based (C#, SQL, .NET), WEB / Cloud (ASP.NET), Embedded Code (PIC Microcontrollers)

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Tech Support: +27 078 537 2098

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HavenTechnik - Employing cost-effective technology to develop customer-centric solutions, we offer both an off-the-shelf or a custom system approach to application and system development. Available from our local development team is a series of cost-effective PLC-styled embedded units for cost-sensitive applications. Supported by our POC (Proof of Concept) development PCB range, systems can be developed and deployed rapidly.

PLC Automation & Embedded Systems
- **SCALAE**: our PLC-style modules offer a capable product at a competitive price.
- **RADIX**: POC and Embedded development tools

Environmental Monitoring, Instrumentation
- Temperature (Domestic and Industrial)
- RH% (Relative Humidity)
- pH (potential of Hydrogen)
- GAS (Methane, Butane, LPG, Carbon Monoxide, Alcohol, Hydrogen, Air Quality)

Data Collation & Communications - IOT
- WIFI
- Ethernet (wired)
- GSM

Hardware Design

For a full solution, we create the PCB layout from an existing or client-provided circuit layout using EAGLE CAD. Once the design is complete, manufacture is entrusted to ISO 9000 accredited suppliers. Assembly will be either outsourced or completed in-house.
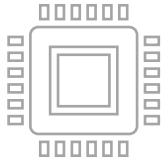
Software, Apps, and Web

We develop **Embedded Software** in C, and PC Based software in C#, ASP.NET, .NET Framework

Attributes of Software Development
- The embedded software is written in C using **MikroC** or **MPLAB** compiler
- PC or Device based software is written using the .NET-based environment. This guarantees the longevity of the solution and therefore the maintainability of the code - normally for user interface or service-based interaction
- Agile methodology is used which enables a phased approach to delivery
  - Systems can be developed and delivered completely or through progressive updates

Microcontroller Families & Systems

We utilize the best-suited microcontroller and technology for the application on hand. However, in many instances, the ever-expanding product portfolio of Microchip has offered the technology or device best suited to a project's objectives.

The systems designed by HavenTechnik are custom designs, developed specifically to client specifications. We have a comprehensive induction process that involves pointed questionnaires that get to the core requirements quickly and succinctly. Time is money and to avoid wastage in developing either a standalone or networked system, we strive to resolve the requirements-gathering phase as quickly as possible.

We utilize the latest technology from Microchip (PIC, Arduino. For other options please enquire)

Return on investment is crucial, we guarantee that the system is developed cost-effectively. This ensures the lowest cost possible in manufacturing and extends to maintenance for the system life cycle, to keep operating costs down.

We implement I4 principles in our designs such that there is concurrency between current needs along with ensuring that the system remains compatible and extensible for future requirements.

Ideally, the system when the latest protocols and information architectures are used, should only require a reprogram to update/upgrade to the next step in system evolution.

The invaluable data gleaned from higher-level systems is stored in retrievable and consumable ways to generate meaningful insights.

HavenTechnik Product Line: We do offer standing product lines in the following areas:

- PIC Development Systems
- PLC Style Units for automation
- Environmental Monitoring
- Data reporting systems

How to get started?

- Contact us, and we will initiate a meet
- A comprehensive design requirements session will commence
- Quotations will be provided with a proposal
- Flexible solutions available on end-to-end system support, maintenance, and IP ownership

Hourly rates: Please enquire about the rate relevant to your region.