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The

Hardware/Software
Architecture is a
complete Embedded
System (ES).

Hardware side
includes processor,

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buses, memory and peripherals like co-processors, sensors, robotic arm, controllers, UARTs, etc.,
Software side includes a Linux OS with a set of libraries that performs different functionalities and to control all components in

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FPGA, these functions are easy-understanding for robotic programmers.

Simultaneous Hardware/Software FPGA Architecture for Robotics ... embedded system but works as a single system for a single goal.

Software

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Architecture plays a vital role for the control system of hardware. It uses interdependent layered architecture for the control structure of the robot. The software layers are built on top of “ physical layer ” , which consists of actual sensors and robots.

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Software and
Hardware
Architecture for
Autonomous Robots
...
This book presents
a hardware
architecture for the
Simultaneous
Localization And
Mapping (SLAM)
problem applied to
embedded robots.

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The architecture is composed by highly specialized modules for robot

localization and feature-based map building from images obtained directly from CMOS cameras in real time. The system is completely embedded on a Field-Programmable

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Gate Array (FPGA) device, where several hardware-orientated optimizations are exploited.

Embedded
Robotics: A
Hardware
Architecture for ...
Embedded System
Hardware: An
embedded system

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requires a hardware platform to interact with various real-time inputs and outputs or variables. The hardware includes controller like microcontroller or microprocessor , memory modules, I/O interfaces, display systems and communication

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modules, etc.

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Architecture for ...

The template would
define hardware-
independent

reusable modules
and an interface
layer that is

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hardware

dependent – changing
when the hardware
in the system

changes. By

applying the
architecture
template

consistently across

several program

platforms, the goal

would be to

decrease the

development time

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from one project to another while improving the maintainability of the software product.

An architecture for designing reusable embedded systems

...

An embedded gadget can be the notion of as a laptop

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hardware device having software program embedded in it. An embedded gadget may be an impartial system or it may be part of a huge system. An embedded system is a microcontroller or microprocessor primarily based gadget that 's designed to perform

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a particular task.

OVERVIEW OF EMBEDDED SYSTEMS

ARCHITECTURE

Figure 1-2 shows a
configuration

diagram of a typical
embedded system
consisting of two
main parts:

embedded hardware
and embedded

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software. The embedded hardware, primarily includes the processor, memory, bus, peripheral devices, I/O ports, and various controllers. The embedded software usually contains the embedded operating system and various applications. Figure

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1-2. Basic

architecture of an
embedded system

Typical Architecture For

Architecture of an
Embedded System,
Typical ...

In this paper, we

propose the
software and
hardware

architecture for
specifically

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Autonomous Robots
using distributed
embedded system.

These concepts
have implemented
in developing a
prototype robot. An
autonomous robot
has minimum three
components a.
sensor b. controller
c. actuators.

Table 1 from
Page 36/50

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Software and
Hardware

Architecture for ...

This architecture is

a hardware and For

software co-design

where embedded

processors drive

the FPGA for motor

control. It is robot

type independent,

as long as the

motors are

equipped with

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...
The wide use of
robotic systems
contributed to
developing robotic
software highly
coupled to the
hardware platform
running the robotic

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system. Due to increased maintenance cost or changing business priorities, the robotic hardware is infrequently... 0

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a small and
amazingly multi-
disciplinary team
including software
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EMBEDDED
SYSTEM is a
combination of
computer software

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and hardware which is either fixed in capability or programmable. An embedded system can be either an independent system, or it can be a part of a large system. It is mostly designed for a specific function or functions within a larger system.

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A scalable
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the methods for
controlling it are
usually crafted for

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specific and custom designs that are deeply tied to the hardware of the robotics. These type of implementations results in non-reusable code and optimization algorithms that only work for specific ...

A scalable

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experience in
computer
architecture and

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embedded wireless
systems.

Knowledge of
Unix/Linux

environments and
embedded Linux.

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Hardware Engineer

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This architecture is
a hardware and
software co-design

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where embedded processors drive the FPGA for motor control. It is robot type independent, as long as the motors are equipped with incremental position encoders and driven by PWM signals.

Low cost, low power consumption, high stability,

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flexibility and
expandability are
the key advantages.

An open embedded
industrial robot
hardware and
software ...

Today's robots can
do more than just
perform tasks.

They can learn,
adapt, and evolve
using capabilities

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like machine learning, computer vision, navigation, and more. NVIDIA

® Jetson AGX™ systems uses the power of deep learning to drive this exciting new era of smart embedded

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security and home-
based healthcare.

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