John Leonard: Professional Backgroun



Education:

- University of Pennsylvania, BSEE (1983-87)
- University of Oxford, DPhil (1987-91) [Mobile Robotics]

History of MIT Positions:

- MIT Sea Grant AUV Lab 1991-1996
- Dept. of Ocean Engineering 1996-2004
- Dept of Mechanical Engineering in 2005-present
- Computer Science and Artificial Intelligence Laboratory

Current Responsibilities:

- Area Head for Ocean Science and Engineering
- Director, Ford-MIT Alliance

Research Interests:

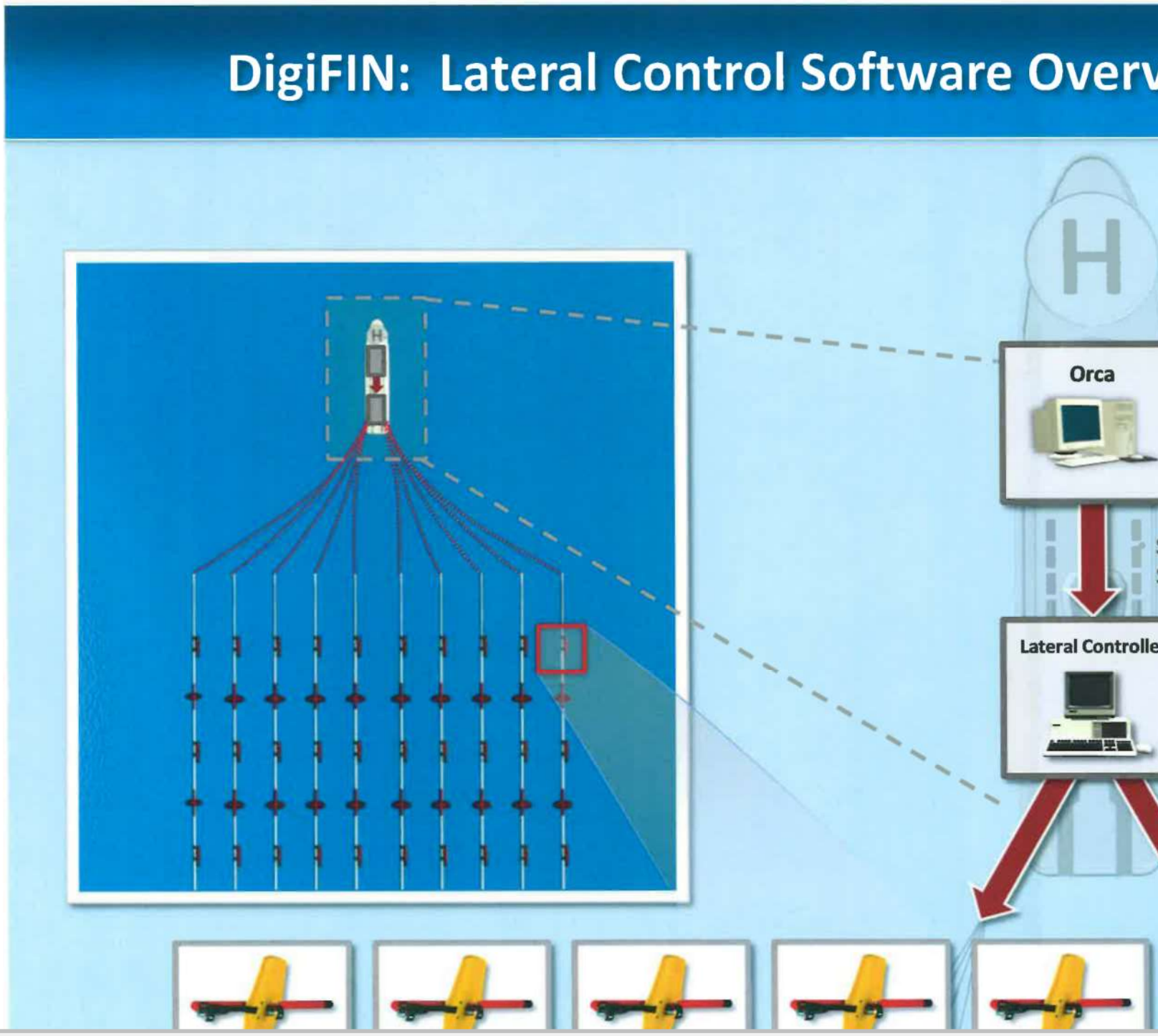
- Mapping, Navigation, and Control of Autonomous Marine Vehicles

Source Code

- Source code is a set of computer instructions
- Includes comments
- Written using a human-readable computer lan

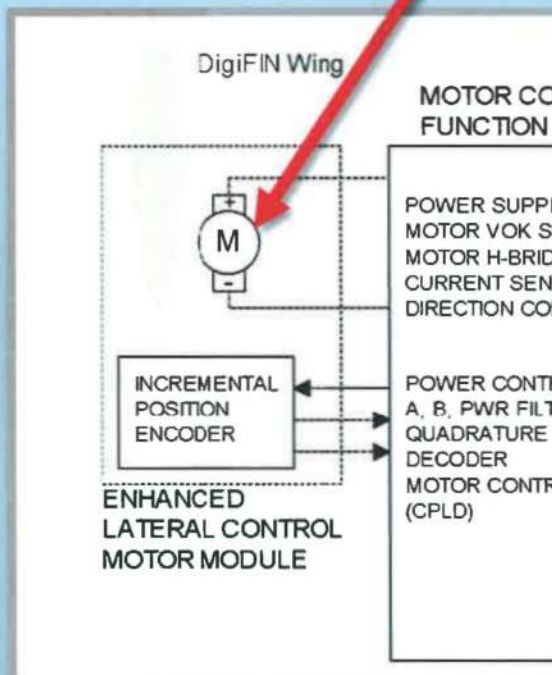
```
#include <stdio.h>

/* a simple C program to print out "hello, world" */

main()
{
  printf("hello, world\n");
}
```

DigiFIN: Lateral Control Software Overv



DigiFIN Hardware & Software

Motors Ad



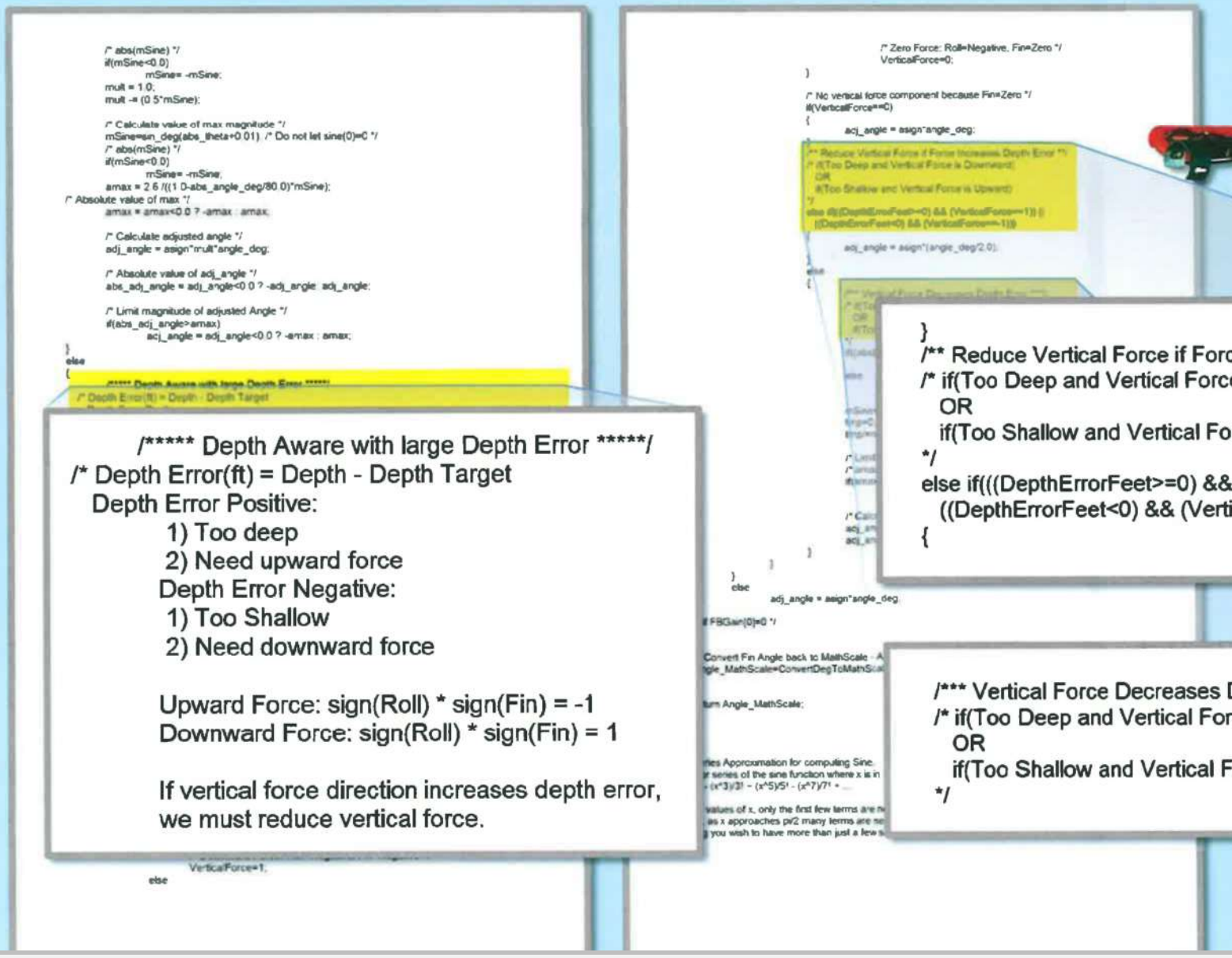
Hardware

- Sensors
  - Temperature
  - Depth
  - Wing Angle
  - Pitch
  - Roll
- Motor
- Microcontroller

Software

- C Language
- Assembler
- Fin Commands
- Backoff Algorithm
- Out Of Bounds Conditions

DigiFIN: Back Off Algorithm



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