

John Leonard: Professional Background



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

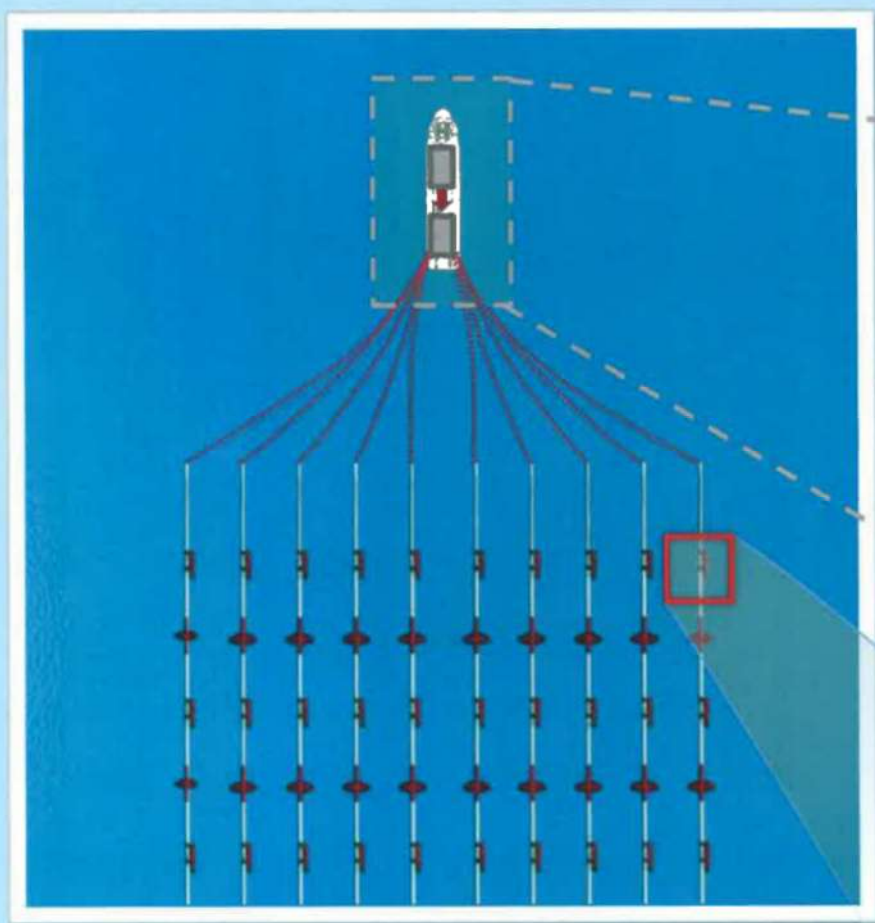
- **Source code is a set of computer instructions**
- **Includes comments**
- **Written using a human-readable computer language**

```
#include <stdio.h>

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

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

DigiFIN: Lateral Control Software Overview



DigiFIN Hardware & Software

Motors Ac

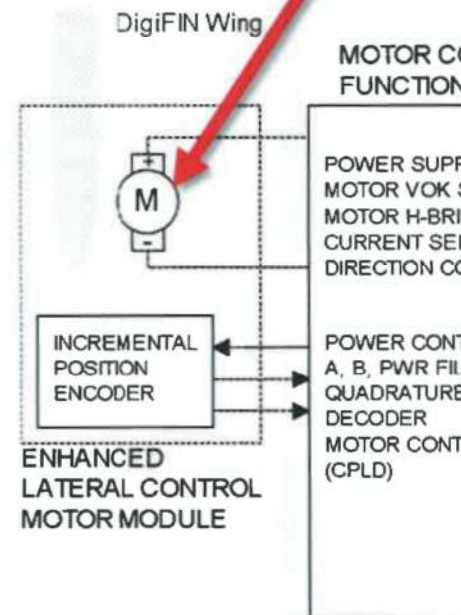
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Hardware

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

Software

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



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