

# SMART SPECS

## TECHNICAL OVERVIEW

# ENTPRO 350

### GOALS

- Complete concept design
- Build functional prototype
- Thoroughly document all work

### GOAL EXECUTION

- Used pre-built modules for fast development
- Introduced team members to hardware and software
- Delegated skill enhancing tasks during downtime

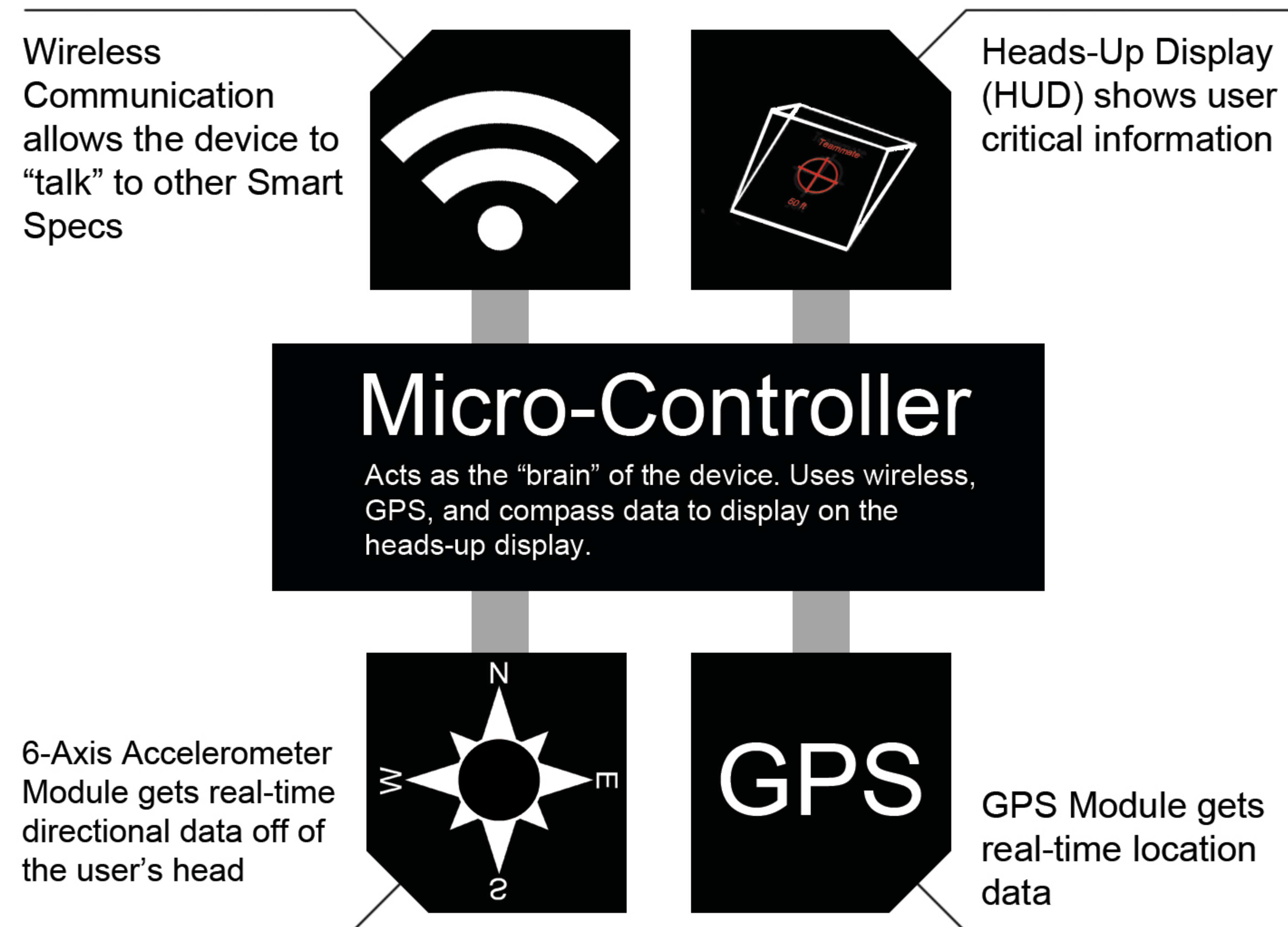
### ACCOMPLISHMENTS

- Designed and built prototype
- Completed detailed Technical Report

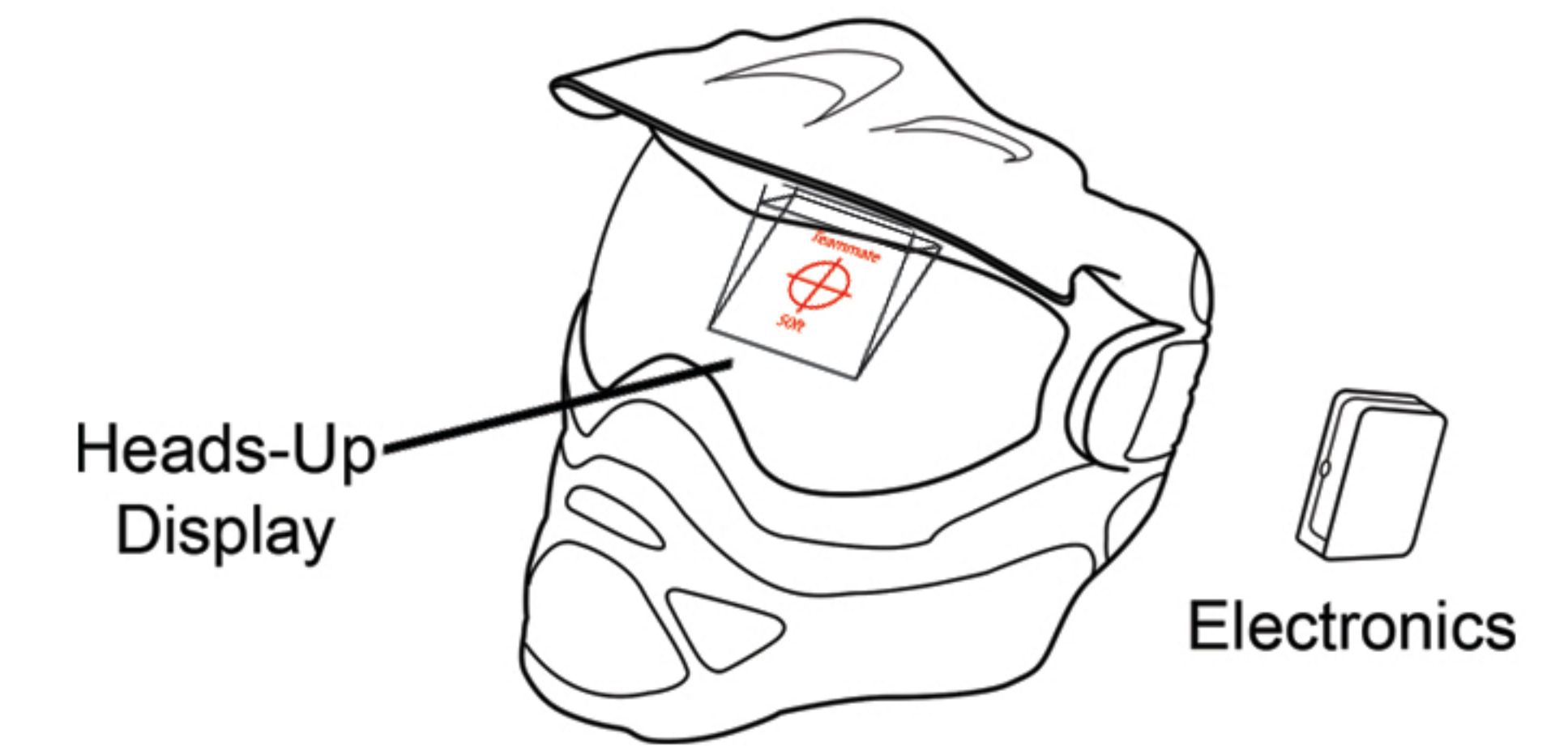
### PROJECT CHALLENGES

- Time constraints
- Display technology is still under development
- Indoor demonstration

### SYSTEM ARCHITECTURE



### CURRENT CONCEPT



- Heads-Up Display is retrofitted to the user's paintball mask.
- Runs on a lithium polymer 11.1V battery
- Desired unit cost: under \$750
- Integrated wireless communication, GPS, and digital accelerometer
- Real-time display of teammate locations
- Low power consumption
- 150 meter wireless communication range

### RECOMMENDATIONS

#### Future Tasks

- Incorporate OLED (display)
- Include hands-free radio
- Miniaturize electronics (Alpha Unit)
- Conduct alpha testing

### TECHNICAL PLAN ROADMAP

