

SMART SPECS

ENPRO 350

TECHNICAL OVERVIEW

GOALS

- Develop a concept
- Build "Proof of concept" prototype
- Technical Report for future EnPRO

GOAL EXECUTION

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

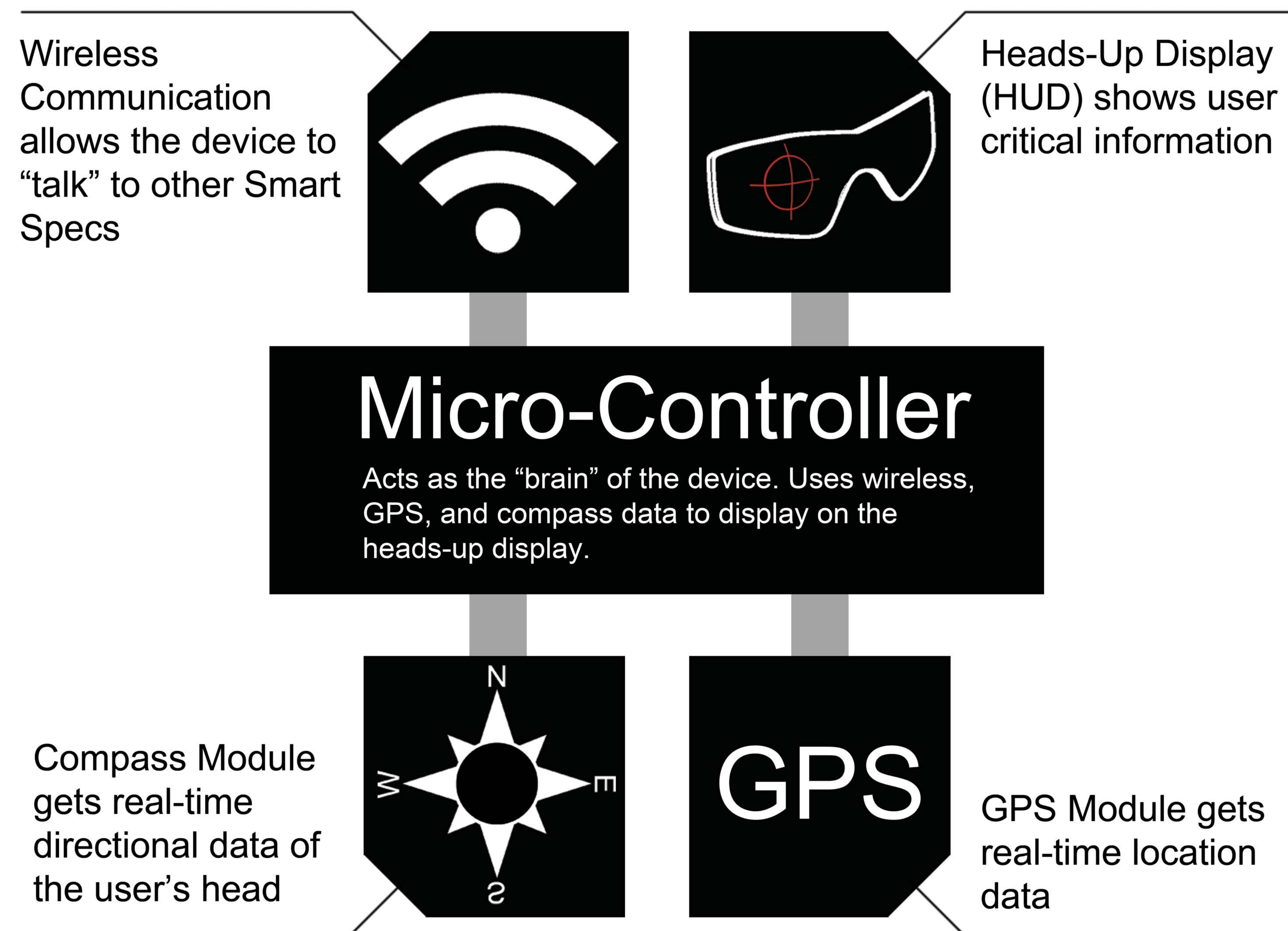
ACCOMPLISHMENTS

- Designed and built prototype
- Completed detailed Technical Report

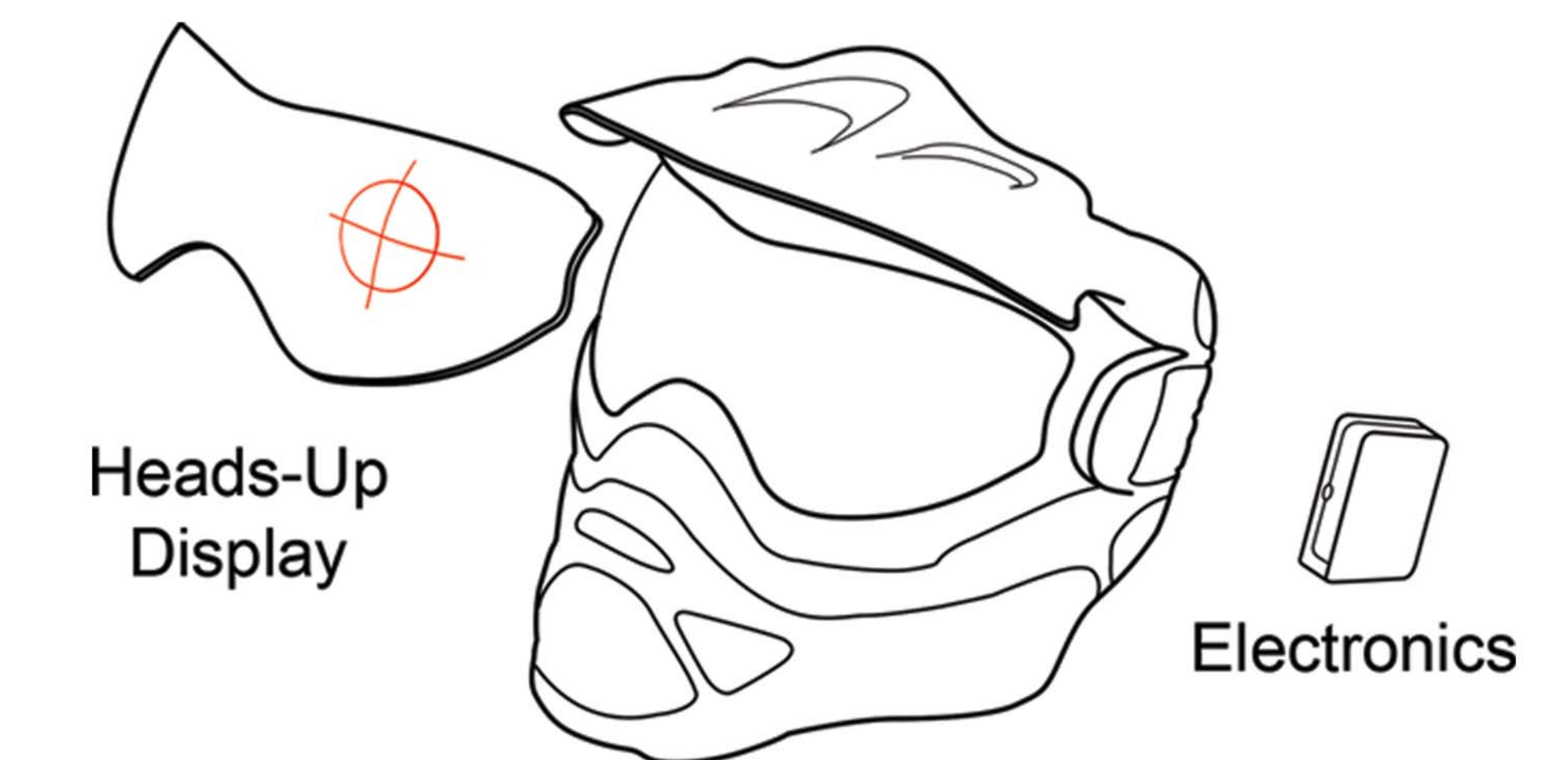
PROJECT CHALLENGES

- Time and Monetary Constraints
- Display technology is still under development
- Indoor demonstration

SYSTEM ARCHITECTURE

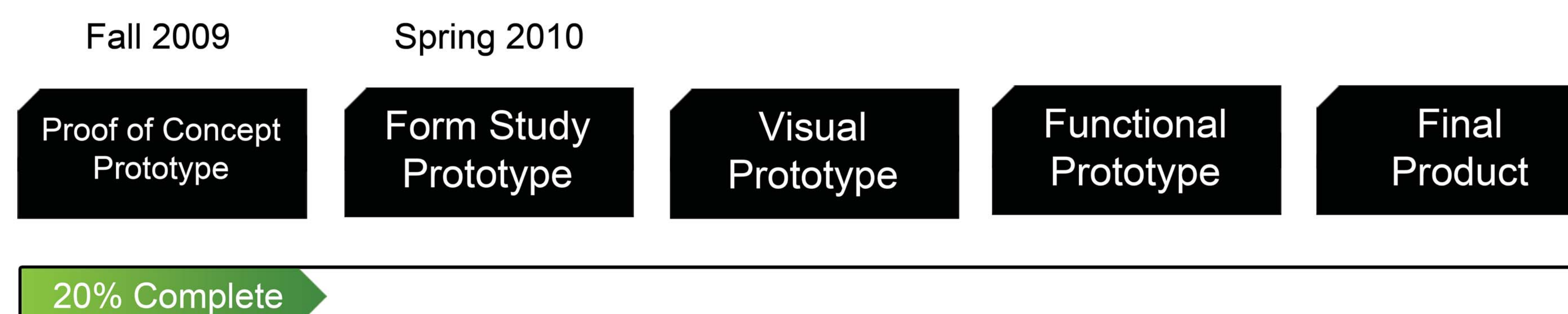


FUTURE CONCEPT



- Heads-Up Display and Electronics retrofitted to the user's paintball mask.
- Runs on a standard 9V battery
- Desired unit cost: under \$200
- Integrated wireless communication, GPS, and digital compass
- Real-time display of critical information such as friendly locations
- Low power consumption
- 100 meter wireless communication range
- Programmable by the user

TECHNICAL PLAN ROADMAP



RECOMMENDATIONS

- Future Tasks
- Design a refined prototype
 - Miniaturize electronics
 - Research Local Positioning System (LPS)
 - Research display systems for HUD