

ENGR 6185 - 2011-03-02

p1

Business goal → make money? yes!

Selling: Services to solve a problem
devices
software

Solving a problem

Communicate with another anywhere in
the world

Write requirements!
to identify the detail
who writes them?

Marketing
Sales

Management
Engineers

Marketing: sell for \$300 or less to customers
Sales: Volume discounts for large distributors
Management: 2% failure rate on delivery (Hardware)
Engineers: Manufactured by humans in under 1 minute,
robotics in under 30 seconds

Requirement Areas

Hardware - Electrical

Software

Operation

Cost

Robustness

Development Environment

Testable

Example:

Req1: This sensing device will work in the temperature range of -40°C to 40°C .

Req2: This sensing device will work in the air pressure range of 0 to 1 atmosphere.

Req3: This sensing device will report an accurate speed ~~withing~~ $\pm 2\text{mph}$ at any temperature and pressure.

Measurable
Specific