The Problem
A warehouse is a natural place to automate otherwise tedious tasks. The robotic systems that are currently available for warehouses tend to require complete integration, and so are usually installed as the warehouse is built.

The Solution
The STORBOT team designed and prototyped a small scale warehouse “gopher.” An operator requests a part through a personal computer, the computer then sends a command to the robot, which retrieves the part and delivers it to the operator. The STORBOT retrieval system is targeted for small warehouses and part stores such as AutoZone or NAPA auto parts.

The Scope
- 20 lb Item Capacity
- 12” x 12” x 12” Box Dimensions
- Fully Autonomous Storage and Retrieval
- Adaptable to Most Warehouse Layouts
- Easy System Installation and Maintenance

The Project
STORBOT (Storage, Transfer, Organization, and Retrieval Robot) required digital hardware, software, control systems, and mechanical design integration. At its base, STORBOT ran on a Digilent Dev. Board with a Xilinx Virtex-II Pro FPGA. The board was running a version of the GNU/Linux 2.6 kernel.

The Team
Team Members (Left to Right): Ryan Mejeur, David VanKampen, David VandeBunte, Matt Lubbers