DATA ANALYSIS AUTOMATION

* USING .NET FRAMEWORK, WRITTEN IN C#
* IMAGE ANALYSIS USING EMGUCV, C# WRAPPER FOR OPENCV LIBRARY
* DONE FOR AN ONLINE MARKETING COMPANY
* COLLATE RESPONSES FOR IMAGE-BASED SURVEY QUESTION TO FIND AREAS OF HIGHEST INTEREST
* IMAGE ANALYSIS TO REDUCE NOISE AND DETECT SPECIFIC OBJECTS OF INTEREST

ERP SYSTEM

* CUSTOMIZED ERP SOLUTION FOR FOOD DISTRIBUTION COMPANY
* SET UP ON VPS USING LAMP STACK
* USING CRM, ACCOUNTING, PURCHASING AND WAREHOUSE MODULES
* SOLO DEVELOPMENT DONE FOR SMALL BUSINESS
* BUILT USING OPENERP WITH MYSQL DB

PLANETLAB DISTRIBUTED DATABASE

* WRITTEN IN JAVA USING NIO SERVERS
* HORIZONTAL SCALING FOR SPEED
* HOSTED ON AROUND 50 PLANETLAB SERVERS RUNNING REDHAT
* REDUNDANCY IMPLEMENTED FOR EACH NODE USING CLUSTERING
* NON-CRYPTOGRAPHIC HASHING
* INDIVIDUAL DEVELOPMENT

SCHOOL TIMETABLING GUI

* BUILT FOR HIGH SCHOOL ADMINISTRATORS TO SCHEDULE TEACHERS WITH CLASSES
* WRITTEN IN C++ USING QT FRAMEWORK
* STAND-ALONE APPLICATION WITH A SMALL, SIMPLE INSTALLER
* RUNS ON LINUX AND WINDOWS
* INDIVIDUAL PROJECT

ELEVATOR CONTROL

* MULTI-THREADED APPLICATION WRITTEN IN C++
* SCALABLE UPWARED WITH THREAD PER ELEVATOR
* REQUESTS SERVICED USING MODIFIED SCAN ALGORITHM FOR MULTIPLE ELEVATORS – CLOSEST ELEVATOR IN CORRECT DIRECTION SERVICES REQUEST
* SIMPLE GUI TO OUTPUT CURRENT ELEVATOR STATE AND TAKE USER INPUT
* ALL ELEVATOR STATE VARIABLES SHARED RESOURCES
* DEVELOPED AS SCHOOL PROJECT WITH A PARTNER

REMOTE IR BUTTON

* DESIGNED AND MANUFACTURED BUTTON USING IR SENSOR
* BUTTON CONNECTED TO SCADA SYSTEM WHICH MONITORS USAGE
* SCADA SYSTEM SENDS USAGE STATISTICS USING SATELLITE COMMUNICATOR
* SCADA SYSTEM PROGRAMMED IN C
* GROUP PROJECT COMPLETED IN SCHOOL