List of Teams & team members?

ISL Data Entry Application

Overview:

The purpose of this document is to describe how the CSCI 470 class went about developing the database and front end of the application ISL will use to track contacts, projects, equipment and labs.

The project was split into three sections which were given to three groups of approximately six students. The groups were responsible for designing and implementing the IRIS database as well as the ISL specific functionality and the web interface for these databases. In the end, IRIS and ISL will be combined into one database which will allow for other labs – the vision lab for example – utilizing the functionality that is already provided for the ISL data.

The following three sections will discuss in more detail each of these three sections and the process it took for design to be accomplished.

The ISL Implementation:

? grammar

Based on the input from the client, we designed the database should be user-centric. So we started with the contact table and sub-classed it to fit the needs of the various types of users. From there we added the supporting tables needed to keep track of the data related to the users such as what they are working on and who provided the funding for their projects. When the project was split the structure of the database remained overall unchanged although some of the major tables were passed to the other team.

not reflected in Doc. A. ?! integration w/ IRIS? !! ?

vague — explain

The database is more or less finished. The only major feature that was not finished is the storage of various media files. This is at the request of the project leader. ? The media file were originally modeled as multi valued attributives of the various tables they were associated with, but we wanted to unify all of the media tables into one table. Otherwise the database is fully functional.

for which relations? Projects?

What? I'll show me!

One of the future plans is to port the database to a DBMS that supports enforcement of foreign key constraints. Currently the database is being used on MySQL which syntactically supports foreign keys but it doesn't actually enforce them. The SQL we wrote have all the key constraints so the port should be fairly easy.

? What? not MySQL support (cough)

If I had access to it - or printed it?

When?

The IRIS Implementation:

The IRIS database design was based off of information received from our initial ISL entity relationship diagram, the ISL and IRIS websites, minutes from IRIS meetings, and feedback from group discussions. The database contains tables for Documents, Funding, Board Members, Expenses, and Contacts. Each of these tables contributes to the administration of ISL and all such projects. Our design of these tables were based on the idea of simplicity and effectiveness which allowed for the end user to input data with ease and quickness. We did this by adding enumerated fields that could be implemented with drop down boxes. In the Document's table we created an enumerated field with the

document Type which would allow the end user to choose from several subcategories of documents including: Contracts, Proposals, Projections, Funding Documents, Logs, Forms, Equipment, and Invoices. Each document would receive a Type as well as a Description from the end user. The document would also contain a path and a primary key of DocumentID. The Contact's table also made use of enumeration which included: Supplier, Student, Faculty, Media, and Sponsor. Each Contact would also contain: Name, Address, Phone Number, and Email along with the primary key of ContactID. The Expenses and Funding tables were created to give Board Members an interface to look up key financial information. The Expenses table explains to the end user a Description of the expense, the Type of the expense and the Price. This table also contains a foreign key of DocumentID so that a Document can be linked with the expense information. The Funding table gives details about Funding sources including: Total Amount of funding, the Amount Left, and the funding Source with foreign keys of ConactID , DocumentID, ProjectID and a primary key of FundingID. This table will give Board Members a quick reference to Funding information. The Board Members table will be made up of administrators within IRIS. This table will contain a ContactID as well as their Position and will contain the Primary key of BoardMemberID. The IRIS database will be a good start at allowing it's user an easy interface to keep track of key information for its organization. Future implementations should include Outreach and Inreach projects to further integrate ISL and IRIS data into a cohesive database design. integration?

The Interface Implementation:

The biggest decisions we as the interface group had to come to a consensus on were how to divide up the work, and what programming technologies we were going to use to develop the interface. About half the people in our group had done some sort of web programming at some point or another, and most of us were slightly more familiar with PHP then other technologies such as ASP.NET and PERL. Based on this we decided to do most of the programming for the interface using JavaScript and PHP.

Dividing up the work was a little bit more difficult. We decided early on that we wanted to focus mainly on three areas being Projects, Equipment, and Contacts. Once we'd developed basic functionality for these sections we could move on and improve upon this functionality while also working on some of the other required areas such as Inreach, Outreach, and Documents. Having around 6-7 people in our group we tried to pair people up and assign them to one of those three sections. We also decided to have two people concentrating on writing a search function that would be flexible enough to be inserted into any of the three major areas just described. good choice nice.

Status of Project:

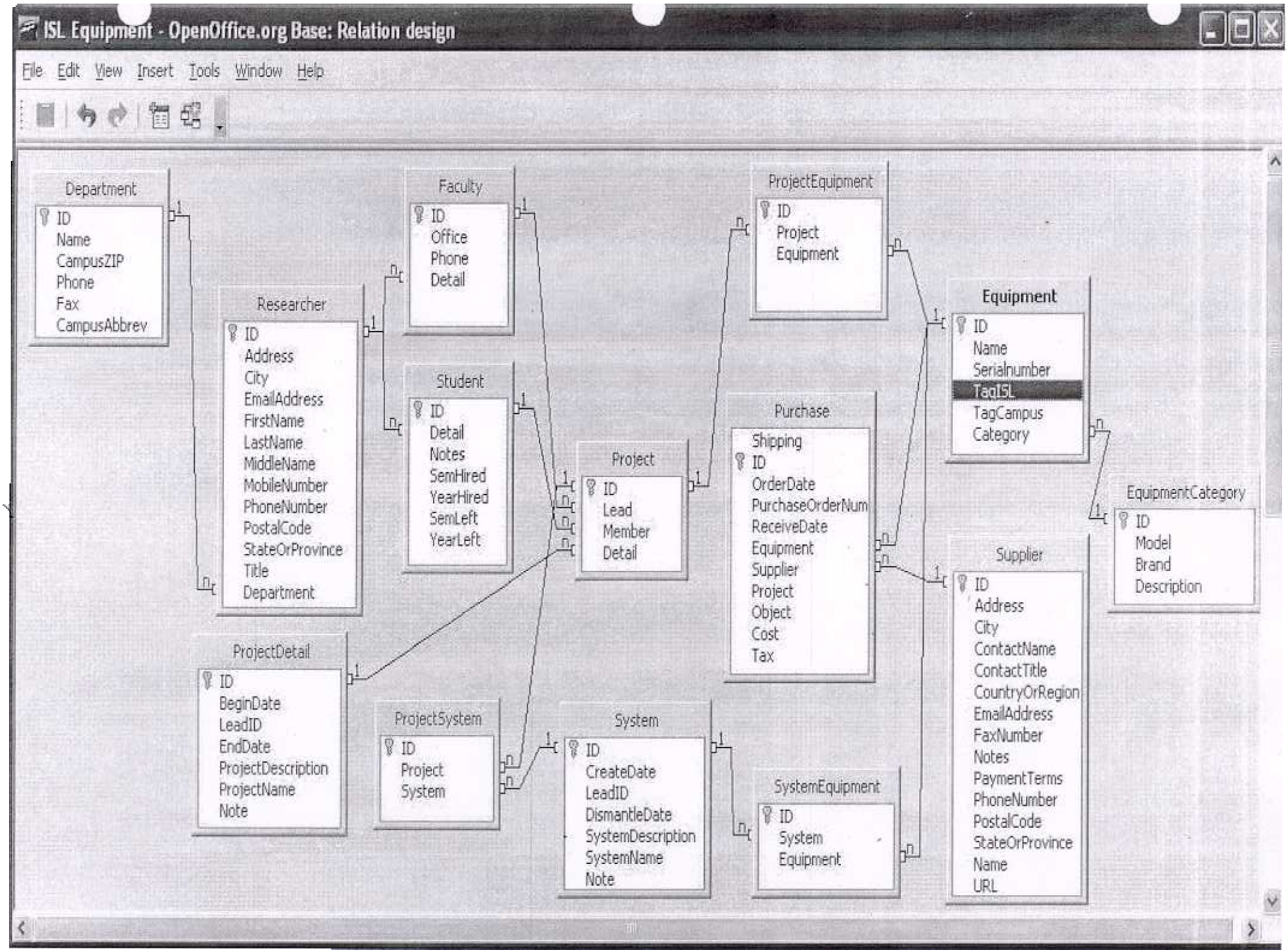
Currently the interface group was able to implement basic searching and sorting functionality into the Equipment, Contacts, Projects, and Documents sections. Upon entering any of these sections a basic list of for example all equipment or contacts is listed to the user. They can then click on the different columns to then sort the data specifically by that corresponding column. From this point the user can access search and add features that will allow them to add another item of that type to the database or to search through the existing data more specifically using selectable options and keyword reports?

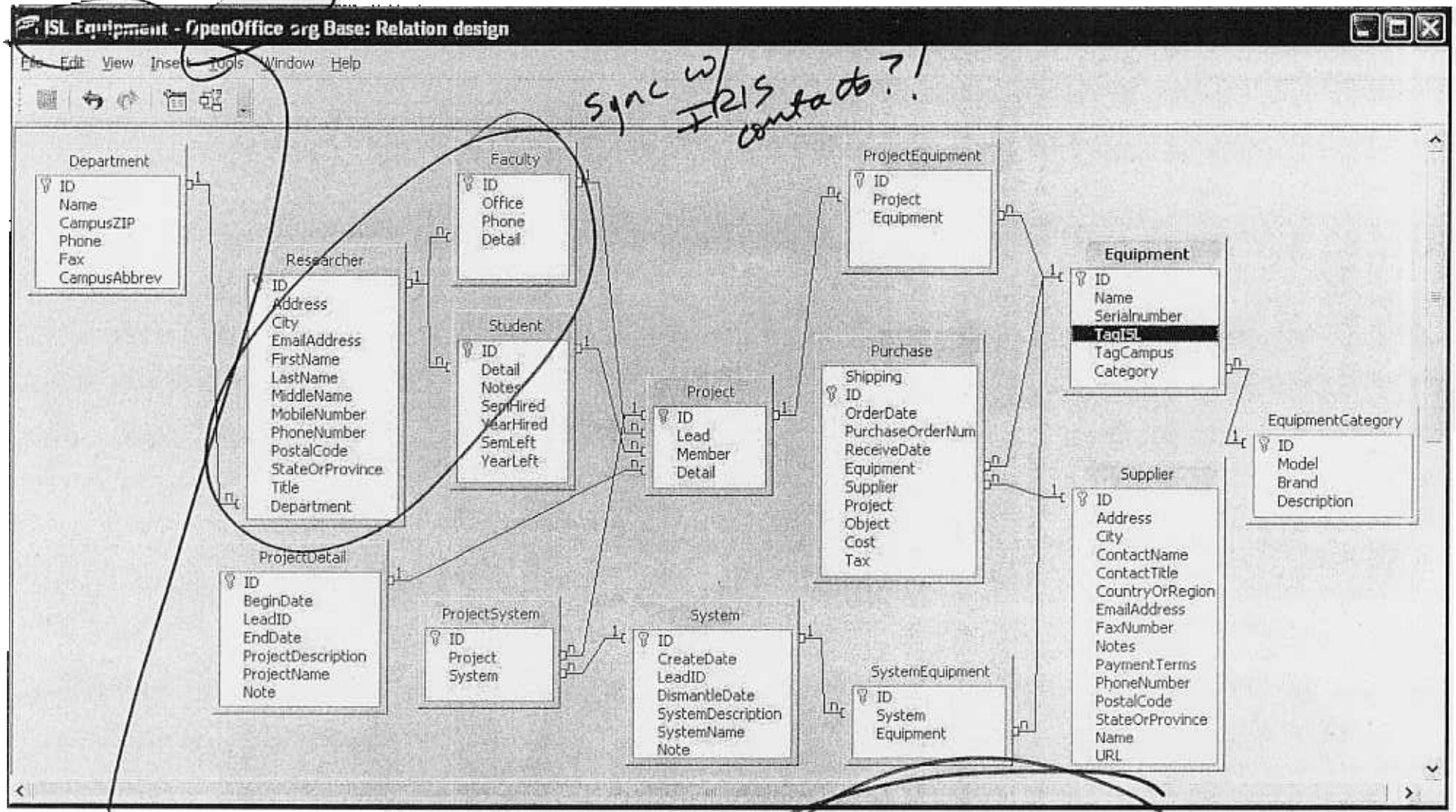
values. Currently there is no functionality for the inreach and outreach sections of the web interface due to the missing database tables.

Recommendations:

As for the future of the interface there are a few things we think would be good to pick up with; one being to add in more advanced linking between the different areas such as Project and Equipment. For example currently there is no way to check out a piece of equipment to a specific project, or to assign a particular student to a research team without knowing their unique id numbers before hand. Implementing a drop down list that would automatically populate with all projects equipment can be checked out to, or all students eligible to work on a research team when doing these modifications would be much more user friendly. Once this linkage is achieved further work on the inreach and outreach sections along with a system for monitoring checked out keys would be our suggested course of action.

Overall Summary?


ISL Equipment - OpenOffice.org Base: Relation design
File Edit View Insert Tools Window Help
Department
ID
Name
CampusZIP
Phone
Fax
CampusAbbrev
Researcher
ID
Address
City
EmailAddress
FirstName
LastName
MiddleName
MobileNumber
PhoneNumber
PostalCode
StateOrProvince
Title
Department
Faculty
ID
Office
Phone
Detail
Student
ID
Detail
Notes
SemHired
YearHired
SemLeft
YearLeft
Project
ID
Lead
Member
Detail
ProjectEquipment
ID
Project
Equipment
Purchase
Shipping
ID
OrderDate
PurchaseOrderNum
ReceiveDate
Equipment
Supplier
Project
Object
Cost
Tax
Equipment
ID
Name
Serialnumber
TagISL
TagCampus
Category
EquipmentCategory
ID
Model
Brand
Description
Supplier
ID
Address
City
ContactName
ContactTitle
CountryOrRegion
EmailAddress
FaxNumber
Notes
PaymentTerms
PhoneNumber
PostalCode
StateOrProvince
Name
URL
ProjectDetail
ID
BeginDate
LeadID
EndDate
ProjectDescription
ProjectName
Note
ProjectSystem
ID
Project
System
System
ID
CreateDate
LeadID
DismantleDate
SystemDescription
SystemName
Note
SystemEquipment
ID
System
Equipment



sync w/ ISL contacts?!

is this A.J's

this copy provided to Aaron as a GUIDE only

What happened to find mp in MySQL

Is this for modeling only

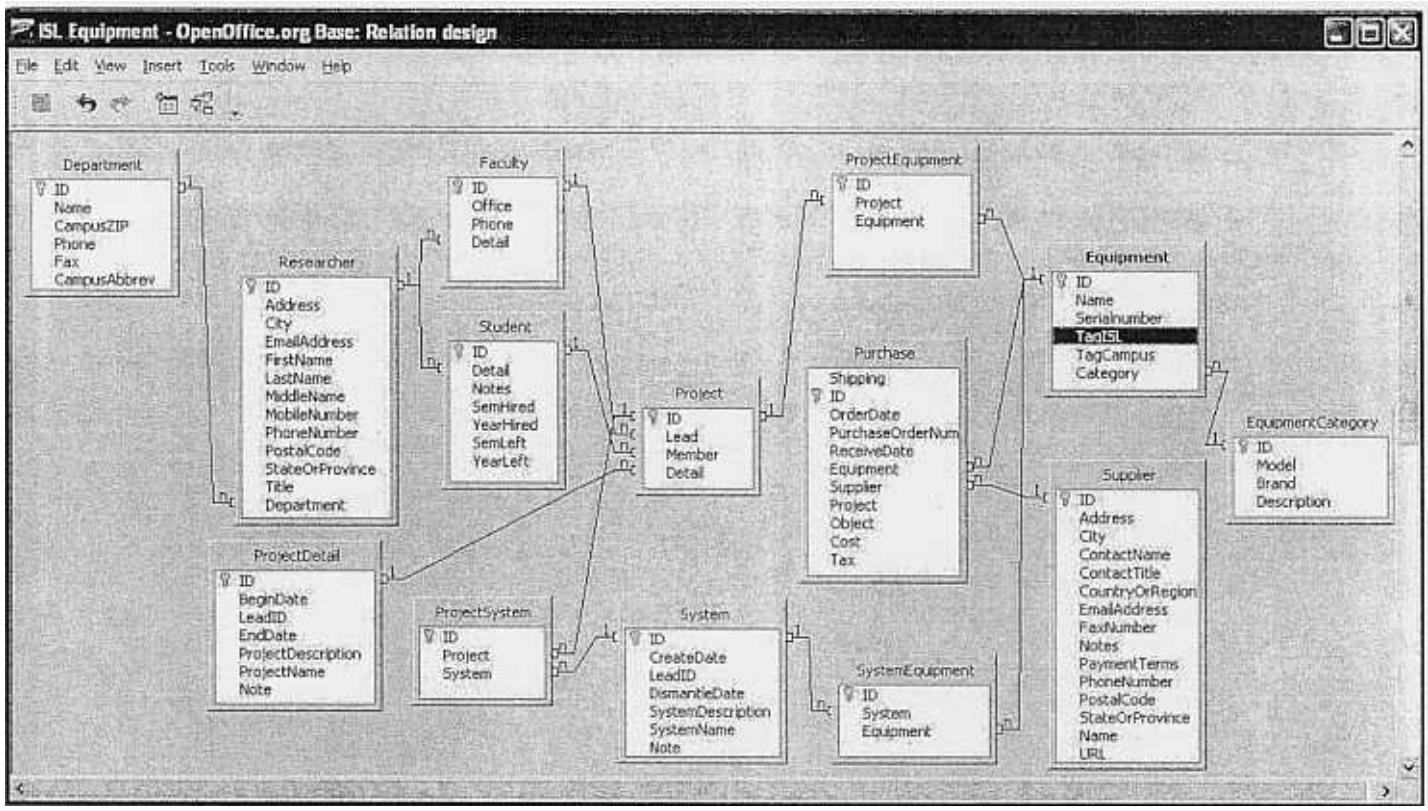
Doc A

Subject: ISL DB Stuff
From: "Dr. J" <juliano@csuChico.edu>
Date: Fri, 07 Apr 2006 07:16:02 -0700
To: renner@csuChico.edu
CC: "Dr. J" <Juliano@csuChico.edu>

Here's what I started with on the ISL Inventory
using the OpenOffice.org database feature ...

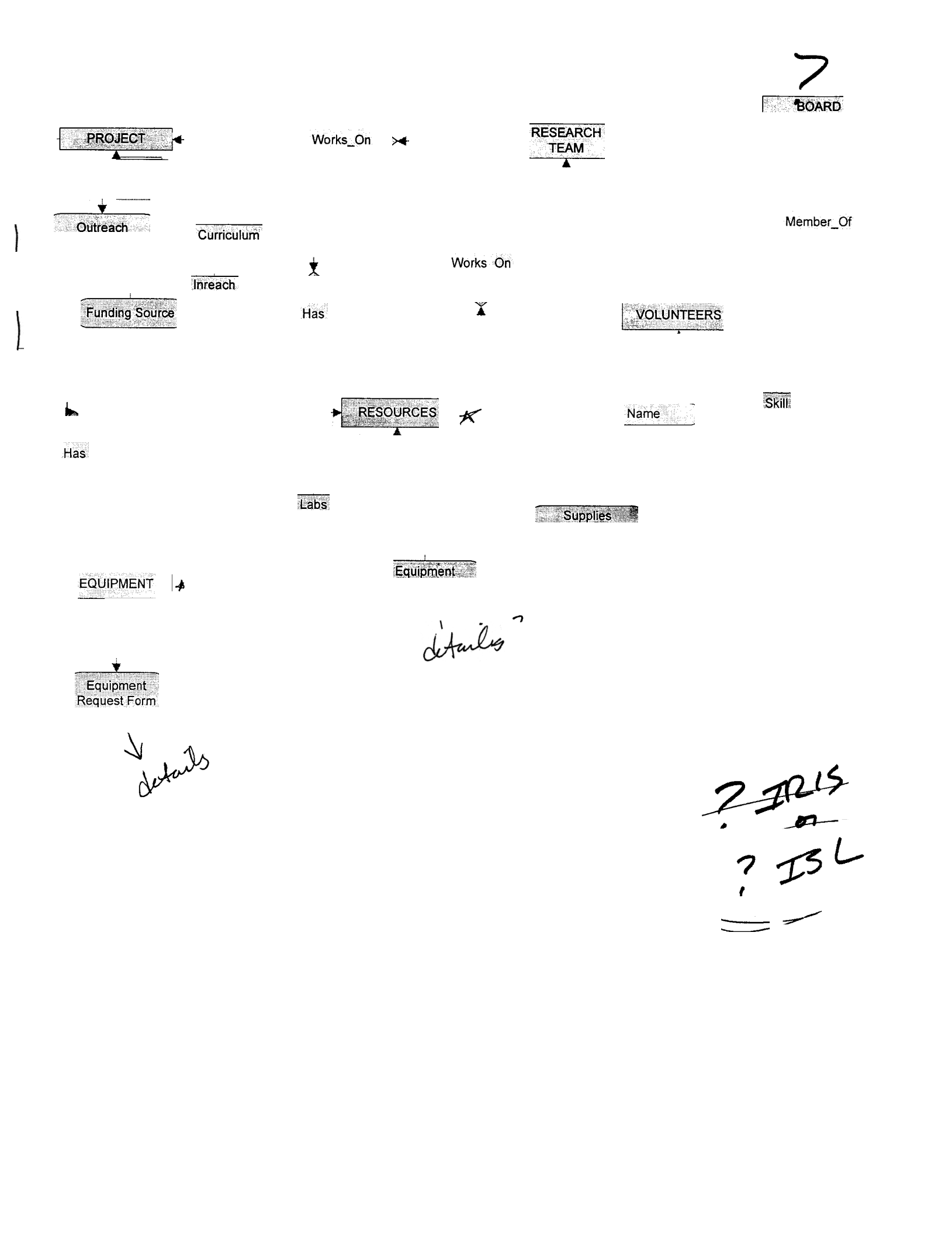
--

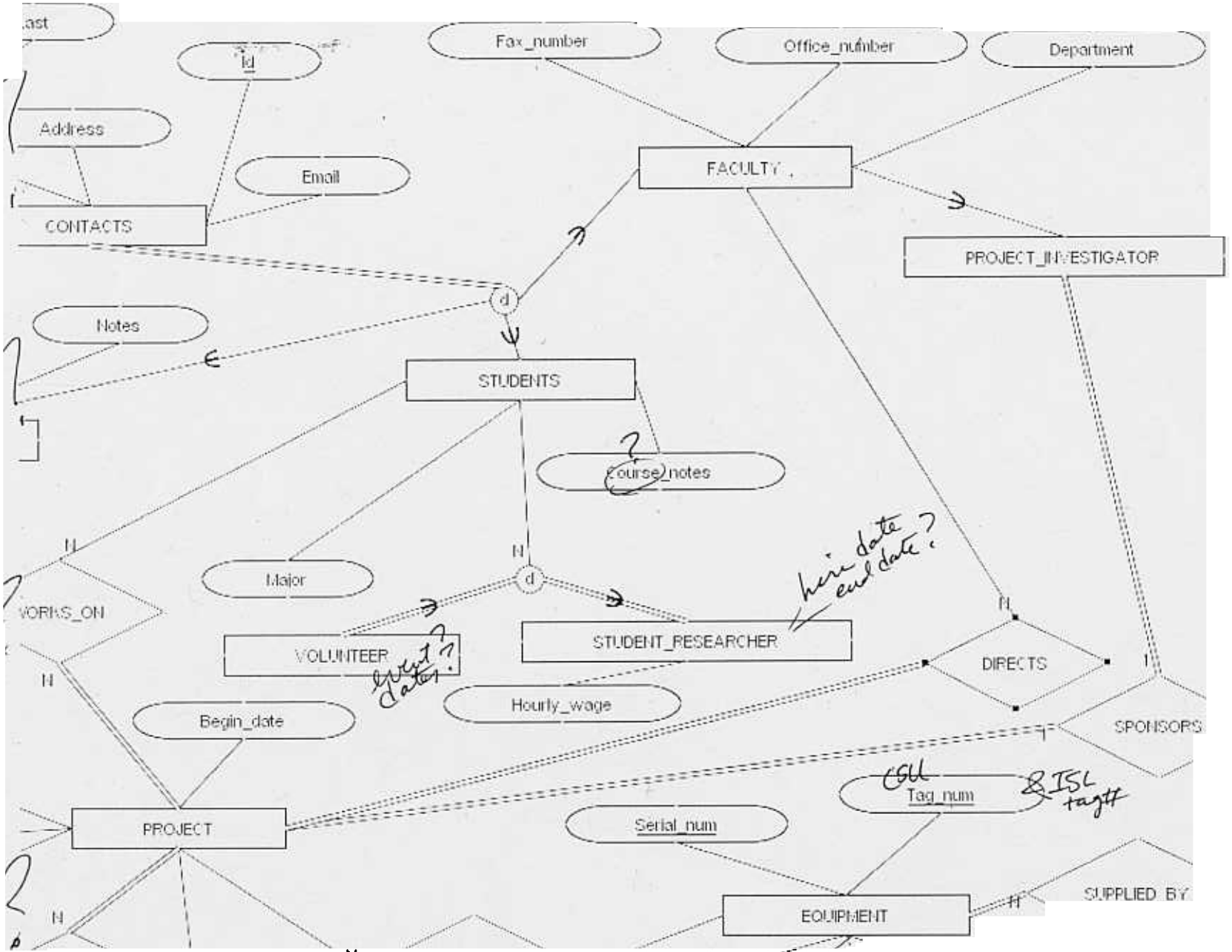
Dr. B.A. JULIANO
Associate Professor, Computer Science
Director, Intelligent Systems Laboratory
California State University, Chico
400 West First Street
Chico, CA 95929-0410
Tel: 530 898-4619/6442 Fax: 530 898-5995
E-mail: Juliano@csuChico.edu
http://www.ecst.csuchico.edu/~juliano
http://gotbots.org/

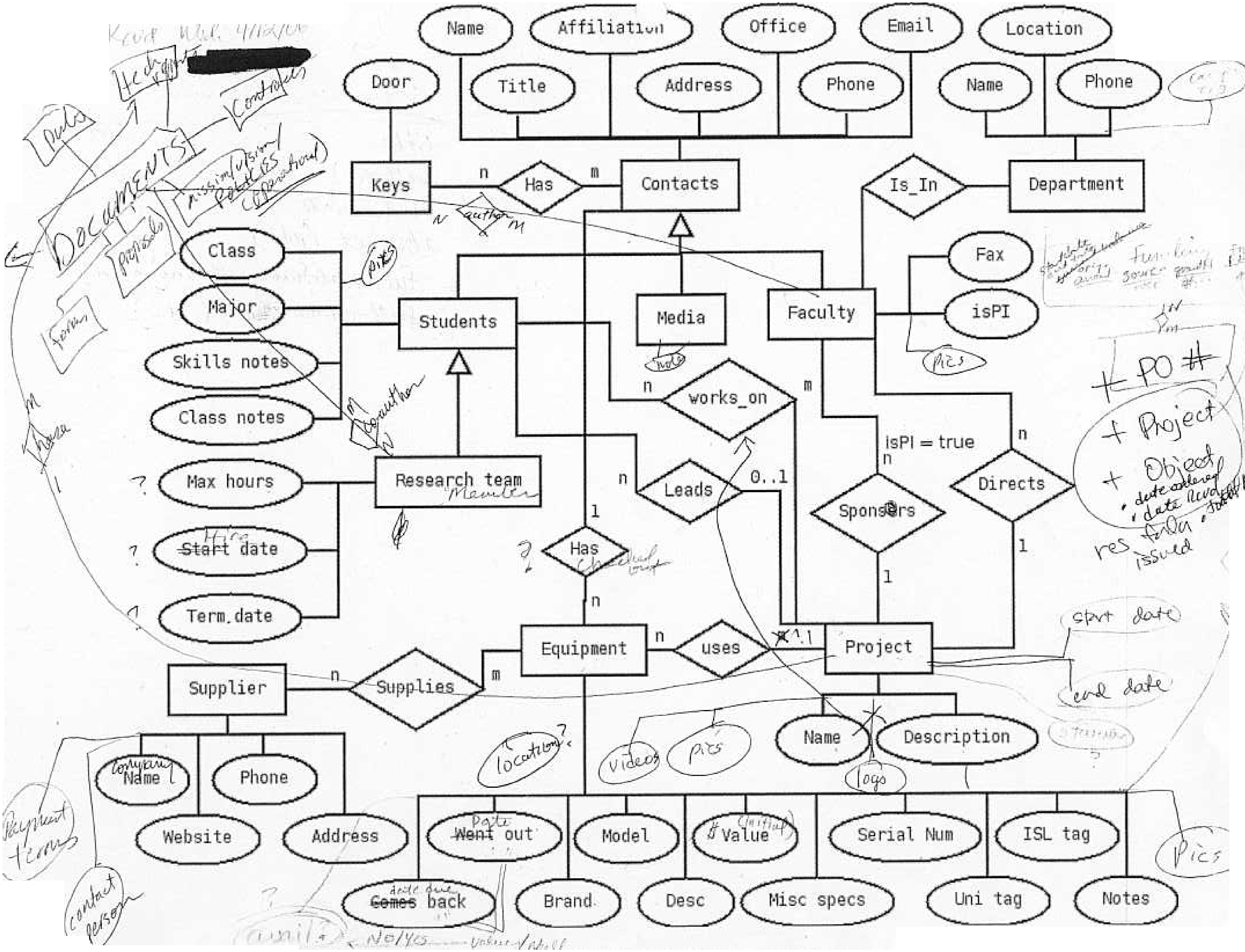


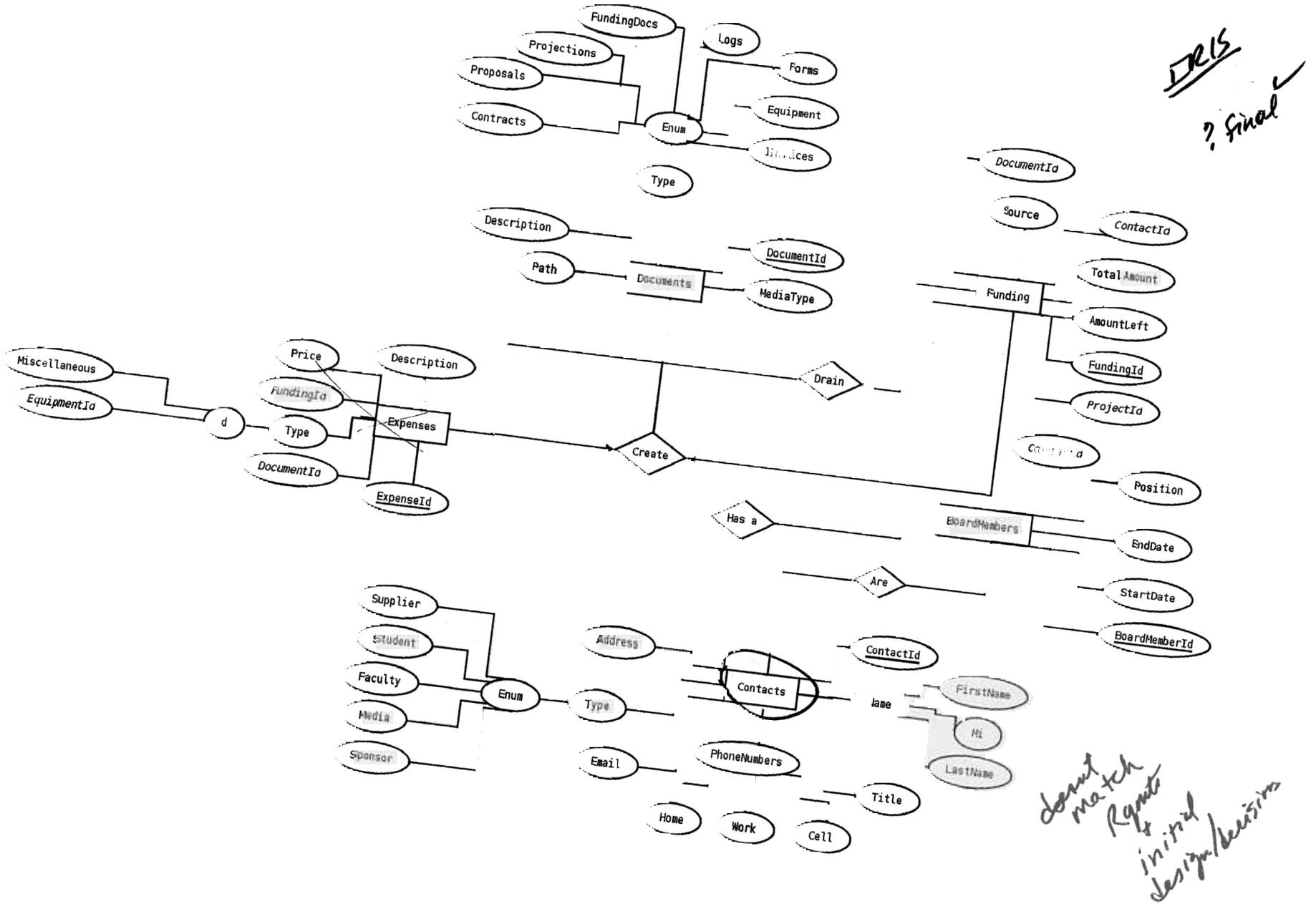
DBdesign.JPG	**Content-Type:** image/jpeg **Content-Encoding:** base64

ISL Equipment.odb	**Content-Type:** application/vnd.oasis.opendocument.database **Content-Encoding:** base64


BOARD
PROJECT
Works_On
RESEARCH TEAM
Outreach
Curriculum
Member_Of
Works On
Inreach
Funding Source
Has
VOLUNTEERS
RESOURCES
Name
Skill
Has
Labs
Supplies
Equipment
EQUIPMENT
details
Equipment Request Form
details
? IRIS
or
? ISL


Fax_number
Office_number
Department
Address
Email
FACULTY
CONTACTS
PROJECT_INVESTIGATOR
Notes
STUDENTS
Course_notes
Major
VOLUNTEER
STUDENT_RESEARCHER
DIRECTS
SPONSORS
Hourly_wage
Begin_date
Tag_num
PROJECT
Serial_num
EQUIPMENT
SUPPLIED_BY
FUNDS
IS_USED_BY
Brand
Description
Model
End_date
SUPPLIER
Payment_terms
Name
ISL
incomplete
(didn't get o
other pages
(Draft 2, not final
(~April)
hire date
end date?
grant?
dates?
CSL
& ISL
tagit
checked
out to?


[redacted]
Name
Affiliation
Office
Email
Location
Door
Title
Address
Phone
Name
Phone
Keys
Has
Contacts
Is_In
Department
Class
Major
Skills notes
Class notes
Students
Media
Faculty
Fax
isPI
works_on
isPI = true
Max hours
Research team
Start date
Term.date
Leads
0..1
Sponsors
Directs
Has
Equipment
uses
Project
Supplier
Supplies
Name
Description
Name
Phone
Website
Address
Went out
Model
Value
Serial Num
ISL tag
Comes back
Brand
Desc
Misc specs
Uni tag
Notes
DOCUMENTS
+ PO #
+ Project
+ Object
res issued
start date
end date
location?
Videos
pics
logo
Payment terms
contact person


FundingDocs
Logs
Projections
Forms
Proposals
Equipment
Contracts
Enum
Type
DocumentId
Source
ContactId
Description
Path
Documents
DocumentId
MediaType
Funding
TotalAmount
AmountLeft
FundingId
ProjectId
Miscellaneous
EquipmentId
d
Price
Description
FundingId
Type
Expenses
DocumentId
ExpenseId
Drain
Create
Position
Has a
BoardMembers
EndDate
Are
StartDate
BoardMemberId
Supplier
Student
Faculty
Media
Sponsor
Enum
Type
Address
Contacts
ContactId
FirstName
Mi
LastName
Email
PhoneNumbers
Title
Home
Work
Cell
IDEAS
? Final
doesn't match
Report
initial
design decisions

PURCHASE ORDER

THE RESEARCH FOUNDATION

BILL TO:	SHIP TO:
REFERENCE PO # 05540	REFERENCE PO # 05540
THE RESEARCH FOUNDATION	THE RESEARCH FOUNDATION
BELL MEMORIAL UNION, ROOM 219	RECEIVING DEPARTMENT
Chico, CA 95929-0248	1st and Orange Streets
Phone: (530) 898-6815	Chico, CA 95929-0920
FAX: (530) 898-6999	

PO#:	CONFIRMING ORDER (Do Not Duplicate)	DATE:
05540	☒ ☒	06/21/05

Crossbow Technology, Inc.
4145 N. First Street
San Jose, CA 95134

COPY

Amount:	Project:	Object:
$8,028.94	60280	8645
Total: $8,028.94		

Vendor #: 800-XBOWTEC

Date Wanted:

Deliver to: Benjoe Juliano OCNL 215

Ship Via:

Terms: net 30

NOTICE TO VENDOR:

1. Reference invoice in triplicate and bill of lading in duplicate.
2. Reference our purchase order number on your invoice.
3. Reference all cash discounts.
4. This purchase order is not complete until approved by Foundation's Purchasing Officer.

Quantity	Unit of Measure	(company / Vendor) Item # Description (brief desc.)	Unit	Amount
A-Z 5		MNAV100CA - Comprehensive Sensor Suite	1,495.00	7,475.00
		Digtal sensor system & servo control board: includes		
		6DOF, inertial MEMS, 3 axis magnetometer, air data	detailed descrip.	
		GPS & temperature sensors.		
A 8-10-05		IBX name = GPS sensor		
		ISLtag = ISL CBMN #01		
		CBMN 02		
		Serial # ?		
		Campus tag (~~...~~)	(on typically items ≥ 1.5K)	

Please indicate purchase order number on shipping label to ensure correct delivery.

Special Instructions:

Subtotal:	$7,475.00
Freight	12.00
State Sales Tax	$541.94
Total:	$8,028.94

Requested By: Dr. Benjoe Juliano 530-898-4619 Zip 410

Approved By Purchasing Officer: Susan Jennings

? forms provided by client!

PURCHASE ORDER

THE RESEARCH FOUNDATION

COPY

BILL TO:
REFERENCE PO # 05146
THE RESEARCH FOUNDATION
BELL MEMORIAL UNION, ROOM 219
Chico, CA 95929-0248
Phone: (530) 898-6815
FAX: (530) 898-6999

SHIP TO:
REFERENCE PO # 05146
THE RESEARCH FOUNDATION
RECEIVING DEPARTMENT
1st and Orange Streets
Chico. CA 95929-0920

PO#: 05146

☐ **CONFIRMING ORDER** *(Do Not Duplicate)*

COMPUTER SCIENCE
SEP 2 8 2004
RECEIVED BY
DR. JULIANO

DATE: 09/23/04

JAMECO Electronics
1355 Shoreway Rd.
Belmont, CA 94002

800-536-4316 or 650-592-2503

Vendor #:

Date Wanted:

Amount:	Project:	Object:
$362.85	60280	8082
Total: $362.85		

Deliver to: Dr. Benjoe Juliano OCNL 215 / 222

Ship Via:

Terms: net 30

NOTICE TO VENDOR:
1. Reference invoice in triplicate and bill of lading in duplicate.
2. Reference our purchase order number on your invoice.
3. Reference all cash discounts.
4. This purchase order is not complete until approved by Foundation's Purchasing Officer.

Quantity	Unit of Measure	Description	Unit	Amount
1	✓	#72696 Glue Gun, Silicon Nozzle		9.95
4	✓	#78633 Glue Sticks, 11.5mm Diameter, 6 pack	3.15	12.60
1	✓	#72768 Knife Set, 13 Blades		10.95
4	✓	#78991 Stripper Wire, 10-30A	3.95	15.80
1	✓	#211289 Electric Grinder, 6-speed w/40pc Accessories		44.95
1	✓	#76865 Heat Gun, 600F / 1100F		39.95
2	✓	#262001 Vise, Hobby, 2.4" Jaw	6.75	13.50
4	✓	#19166 Desolder Pump, Non-Electric	4.95	19.80
4	✓	#102461 Soldering Iron, 30W, 110-120Vac	4.99	19.96
2	✓	#22091 Tip (2) for #19166	4.49	8.98
4	✓	#36329 Soldering Stand	4.95	19.80
2	✓	#116020 Tip, Replacement for #10261	2.25	4.50
1	✓	#112344 Solder Roll, .020"		17.95
		See Attached		

Please indicate purchase order number on shipping label to ensure correct delivery.

Special Instructions:

Subtotal	$329.00
Freight	10.00
State Sales Tax	$23.85
Total:	$362.85

Requested By:
Benjoe Juliano
zip:410 530-898-4619

Approved By Purchasing Officer:
Susan Jennings

PURCHASE ORDER

THE RESEARCH FOUNDATION, California State University, Chico

COPY

BILL TO:
REFERENCE PO # 4115
THE RESEARCH FOUNDATION
BELL MEMORIAL UNION ROOM 219
Chico, CA 95929-0248
Phone: (530) 898-6815
FAX: (530) 898-6999

SHIP TO:
REFERENCE PO # 4115
THE RESEARCH FOUNDATION
RECEIVING DEPARTMENT
1st and Orange Streets
Chico, CA 95929-0920

PO#:	CONFIRMING ORDER (Do Not Duplicate)	DATE:
4115		09/09/03

Lego Shop at Home
PO Box 1310
Enfield, CT 06083-1310

800-835-4386

Vendor #:

Date Wanted:

Deliver to: Dr. Benjoe Juliano OCNL 215

Ship Via:

Terms: net 30

Amount:	Project:	Object:
$7,368.08	60280	8080
Total: $7,368.08		

NOTICE TO VENDOR:
1. Reference invoice in triplicate and bill of lading in duplicate.
2. Reference our purchase order number on your invoice.
3. Reference all cash discounts.
4. This purchase order is not complete until approved by Foundation's Purchasing Officer.

Quantity	Unit of Measure	Description	Unit	Amount
30		Lego Mindstorms Robotics Invention System Kit	229.00	6,870.00
		(Lego Product ID# K9916)		
		A 9/30/3 - ups - 17 bxs		
		Complete (no bkgs left)		

Please indicate purchase order number on shipping label to ensure correct delivery.

Special Instructions:

Subtotal:	$6,870.00
Freight:	
State Sales Tax:	$498.08
Total:	$7,368.08

Requested By:
Benjoe Juliano
zip:410 (530)898-4619

Approved By Purchasing Officer:
Susan Jennings

PURCHASE ORDER

THE RESEARCH FOUNDATION

COPY

BILL TO:
REFERENCE PO # 05145
THE RESEARCH FOUNDATION
BELL MEMORIAL UNION, ROOM 219
Chico, CA 95929-0248
Phone: (530) 898-6815
FAX: (530) 898-6999

SHIP TO:
REFERENCE PO # 05145
THE RESEARCH FOUNDATION
RECEIVING DEPARTMENT
1st and Orange Streets
Chico, CA 95929-0920

PO#: 05145

☐ **CONFIRMING ORDER** *(Do Not Duplicate)*

DATE: 09/23/04

LEGO Shop At Home
PO Box 1310
Enfield, CT 06083-1310

Amount:	Project:	Object:
$2,753.44	60280	8082

Vendor #:

Date Wanted:

Total: $2,753.44

Deliver to: Dr. Benjoe Juliano OCNL 215/ 222

Ship Via:

Terms: net 30

NOTICE TO VENDOR:
1. Reference invoice in triplicate and bill of lading in duplicate.
2. Reference our purchase order number on your invoice.
3. Reference all cash discounts.
4. This purchase order is not complete until approved by Foundation's Purchasing Officer.

Quantity	Unit of Measure	Description	Unit	Amount
33		#W979649 LEGO Technology Resource Set	57.00	1,881.00
33		#W979891 LEGO 9V Angle Sensor	18.00	594.00

A 10/6/04 - vps-39
Complete

COMPUTER SCIENCE
OCT 07 2004
RECEIVED BY
DR. JULIANO

Please indicate purchase order number on shipping label to ensure correct delivery.

Special Instructions:

Subtotal:	$2,475.00
Freight:	99.00
State Sales Tax:	$179.44
Total:	$2,753.44

Requested By:
Benjoe Juliano
zip:410 530-898-4619

Approved By Purchasing Officer:
Susan Jennings

PURCHASE ORDER

THE RESEARCH FOUNDATION, California State University, Chico

COPY

BILL TO:
REFERENCE PO # 4130
THE RESEARCH FOUNDATION
BELL MEMORIAL UNION, ROOM 219
Chico, CA 95929-0248
Phone: (530) 898-6815
FAX: (530) 898-6999

SHIP TO:
REFERENCE PO # 4130
THE RESEARCH FOUNDATION
RECEIVING DEPARTMENT
1st and Orange Streets
Chico, CA 95929-0920

PO#:	CONFIRMING ORDER (Do Not Duplicate)	DATE:
4130		09/18/03

Lnyxmotion, Inc.
PO Box 818
Peking, IL 61555-0818

309-382-1816

Vendor #:

Amount:	Project:	Object:
$6,001.92	60280	8081
432.24	60280	8081
-432.24	96000	2152

Date Wanted:

Total: $6,001.92

Deliver to: B. Juliano Ocnl 222

Ship Via:

Terms: net 30

NOTICE TO VENDOR:
1. Reference invoice in triplicate and bill of lading in duplicate.
2. Reference our purchase order number on your invoice.
3. Reference all cash discounts.
4. This purchase order is not complete until approved by Foundation's Purchasing Officer.

Quantity	Unit of Measure	Description	Unit	Amount
A 8		Carpet Rover 2/Lynx 5 Combo Kit (#CRL5-KT)	452.52	3,620.16
A 8		Hexapod 1 (00PIC-R) Robot Combo Kit (#H1CC-KT)	251.82	2,014.56
A 8		Ultrasonic Range Sensor (#URS-01)	35.95	287.60
A 8		Single Ultrasonic Sensor Housing (#URSH-03)	4.95	39.60
		A 10/14/3 - URS - 2645		
		Complete		
		COMPUTER SCIENCE		
		OCT 14 2003		
		RECEIVED BY DR. JULIANO		

Please indicate purchase order number on shipping label to ensure correct delivery.

Special Instructions:

Subtotal:	$5,961.92
Freight:	40.00
State Sales Tax:	
Total:	$6,001.92

Requested By:
Benjoe Juliano
zip:410 (530)898-4619

Approved By Purchasing Officer:
Susan Jennings

PURCHASE ORDER

THE RESEARCH FOUNDATION, California State University, Chico

BILL TO:
REFERENCE PO # 4129
THE RESEARCH FOUNDATION
BELL MEMORIAL UNION, ROOM 219
Chico, CA 95929-0248
Phone: (530) 898-6815
FAX: (530) 898-6999

SHIP TO:
REFERENCE PO # 4129
THE RESEARCH FOUNDATION
RECEIVING DEPARTMENT
1st and Orange Streets
Chico, CA 95929-0920

PO#:		DATE:
4129	CONFIRMING ORDER *(Do Not Duplicate)*	09/18/03

Net Media, Inc.
10940 N. Stallard Pl.
Tucson, AZ 85737

520-544-4567

Vendor #:

COPY

Amount:	Project:	Object:
$1,530.45	60280	8081
110.09	60280	8081
-110.09	96000	2152

Date Wanted:

Total: $1,530.45

Deliver to: B. Juliano OCNL 222

Ship Via:

Terms: net 30

NOTICE TO VENDOR:
1. Reference invoice in triplicate and bill of lading in duplicate.
2. Reference our purchase order number on your invoice.
3. Reference all cash discounts.
4. This purchase order is not complete until approved by Foundation's Purchasing Officer.

Quantity	Unit of Measure	Description	Unit	Amount
30		Net Media Basic X-24 Stamp (BX-24)	49.95	1,498.50
1		Net Media Basic X Software CD		19.95
		A 9-26-3-48- 18x		
		Copies		

Please indicate purchase order number on shipping label to ensure correct delivery.

Special Instructions:

Subtotal:	$1,518.45
Freight	12.00
State Sales Tax:	
Total:	$1,530.45

Requested By:
B. Juliano
zip:410 (530)898-4619

Approved By Purchasing Officer:
Susan Jennings

PURCHASE ORDER

THE RESEARCH FOUNDATION, California State University, Chico

BILL TO:
REFERENCE PO # 4131
THE RESEARCH FOUNDATION
BELL MEMORIAL UNION, ROOM 219
Chico, CA 95929-0248
Phone (530) 898-6815
FAX (530) 898-5999

SHIP TO:
REFERENCE PO # 4131
THE RESEARCH FOUNDATION
RECEIVING DEPARTMENT
1st and Orange Streets
Chico, CA 95929-0920

PO#:	CONFIRMING ORDER	DATE:
4131	(Do Not Duplicate)	09/18/03

Parallax
599 Menlo Drive, Ste. 100
Rocklin, CA 95765

888-512-1024

COPY

Vendor #:

Amount:	Project:	Object:
$2,386.65	60280	8081

Date Wanted:

Total: $2,386.65

Deliver to: B. Juliano Ocnl 215

Ship Via:

Terms: net 30

NOTICE TO VENDOR:
1. Reference invoice in triplicate and bill of lading in duplicate.
2. Reference our purchase order number on your invoice.
3. Reference all cash discounts.
4. This purchase order is not complete until approved by Foundation's Purchasing Officer.

Quantity	Unit of Measure	Description	Unit	Amount
15		#28016 - Parallax IR Buddy Pair	59.00	885.00
10		#29113 - Parallax Compass App. Mod.	79.00	790.00
10		#29143 - Parallax Audio Amplifier App.Mod	29.00	290.00
10		#28019 - Parallax SSIR Detector	14.95	149.50
10		800-00003 - Service Cable for BS2 Programming	10.00	100.00

A 9-25-3-03 BK
Complete

COMPUTER SCIENCE
SEP 2 3 2003
RECEIVED BY

Please indicate purchase order number on shipping label to ensure correct delivery.

Special Instructions:

Subtotal:	$2,214.50
Freight:	11.60
State Sales Tax	$160.55
Total:	$2,386.65

Requested By:
B. Juliano
zip:410 (530)898-4619

Approved By Purchasing Officer:
Susan Jennings

PURCHASE ORDER

THE RESEARCH FOUNDATION

BILL TO:
REFERENCE PO # 05273
THE RESEARCH FOUNDATION
BELL MEMORIAL UNION, ROOM 219
Chico, CA 95929-0248
Phone (530) 898-6815
FAX: (530) 898-6999

SHIP TO:
REFERENCE PO # 05273
THE RESEARCH FOUNDATION
RECEIVING DEPARTMENT
1st and Orange Streets
Chico, CA 95929-0920

PO#:	CONFIRMING ORDER (Do Not Duplicate)	DATE:
05273	[X]	12/15/04

SONY Electronics, Inc.
ATTN: Shawn Gusman/Mark Milburn
Retail Services
P.O. Box 5219
Carol Stream, IL 60197-5219
Vendor #: 866-546-4534 FAX 866-646-9744

COPY

Amount:	Project:	Object:
$18,082.76	60280	8610
Total: $18,082.76		

Date Wanted:

Deliver to: Dr. Benjoe Juliano OCNL Rm. 215/222

Ship Via:

Terms: net 30

NOTICE TO VENDOR:
1. Reference invoice in triplicate and bill of lading in duplicate.
2. Reference our purchase order number on your invoices.
3. Reference all cash discounts.
4. This purchase order is not complete until approved by Foundation's Purchasing Officer.

Quantity	Unit of Measure	Description	Unit	Amount
10		ERS-7M2 - white	1,671.12	16,711.20

A12-27-04 -4BX

Complete

Please indicate purchase order number on shipping label to ensure correct delivery.

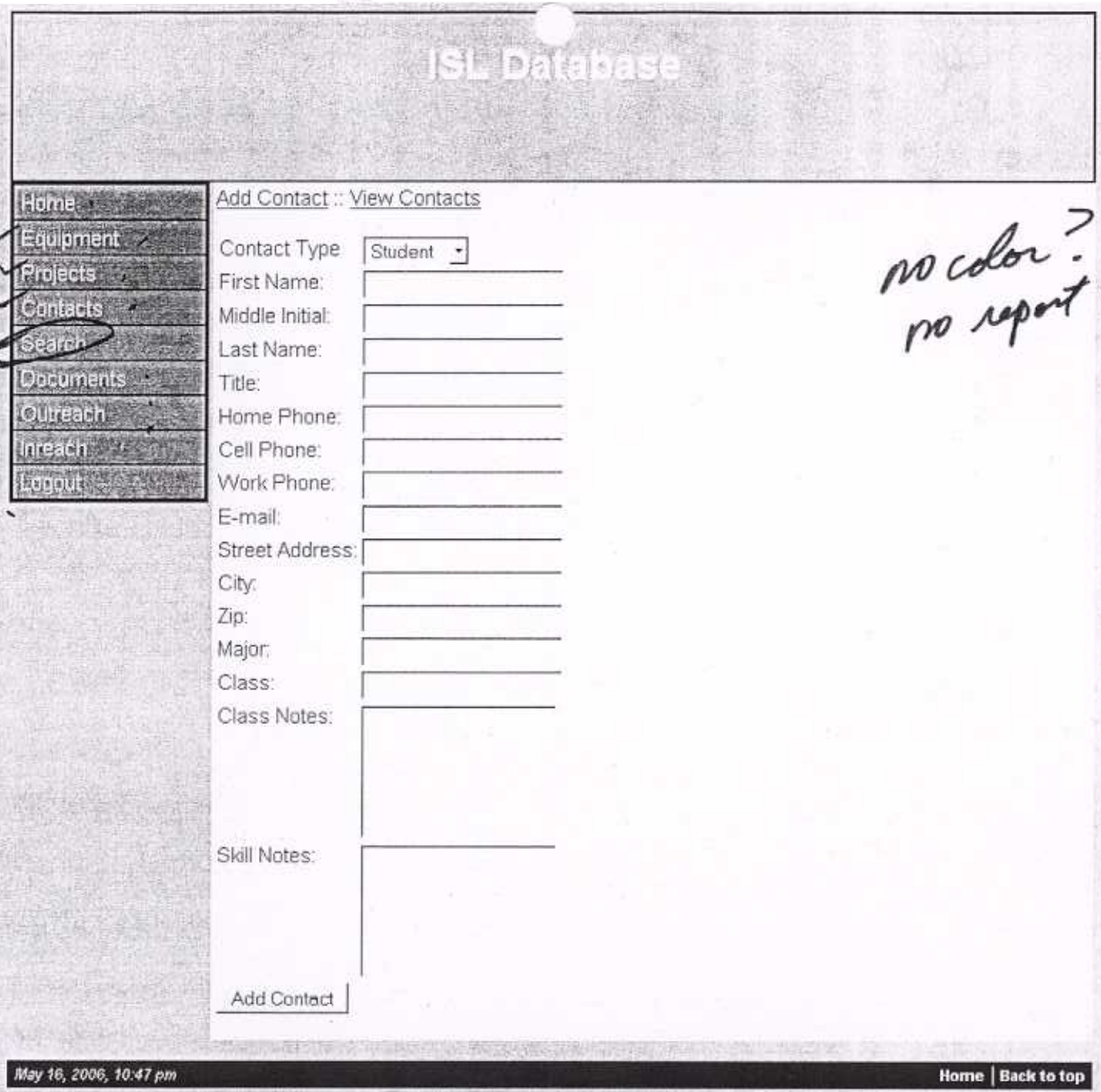
Special Instructions:

Subtotal:	$16,711.20
Freight:	160.00
State Sales Tax:	$1,211.56
Total:	$18,082.76

Requested By:
Benjoe Juliano
530-898-4619 Zip 410

Approved By Purchasing Officer:
Susan Jennings

Deliver TO Computer Science AFTer 1:30 pm 1-604



no color?
no report feature in prototype?

cslug.org/~grouper
user: renner
pass: renner

ISL Database

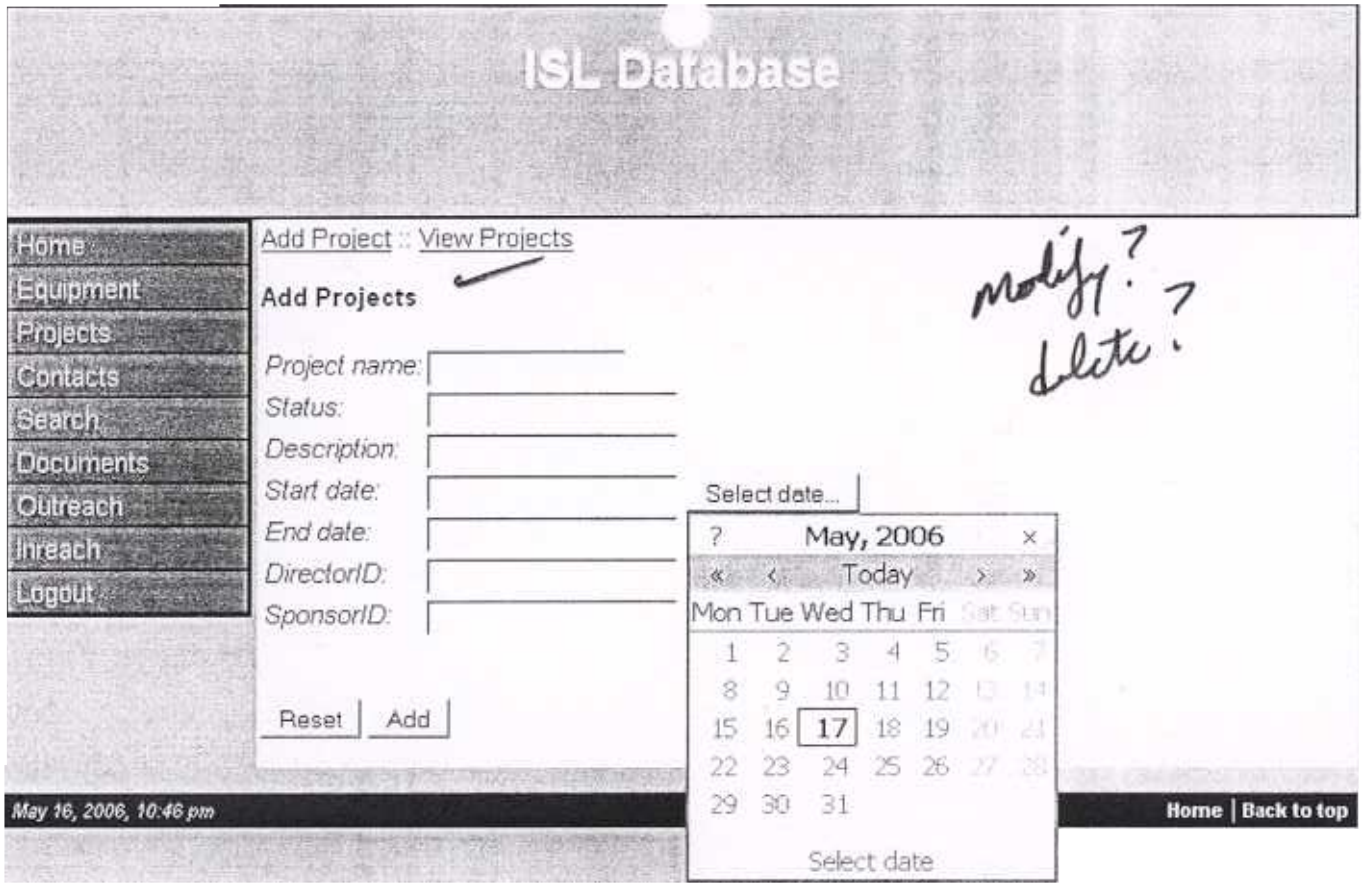
- Home
- Equipment
- Projects
- Contacts
- Search
- Documents
- Outreach
- Inreach
- Logout

Add Equipment :: View Equipment

Add Equipment

Available:	○ No ○ Yes
Location:	
DateDueBack:	YYYY MM DD
DateOut:	YYYY MM DD
Brand:	
Model:	
Description:	
CheckedOut:	
Value:	
MiscellaneousDescription:	
SerialNumber:	
Notes:	

Reset | Add


ISL Database
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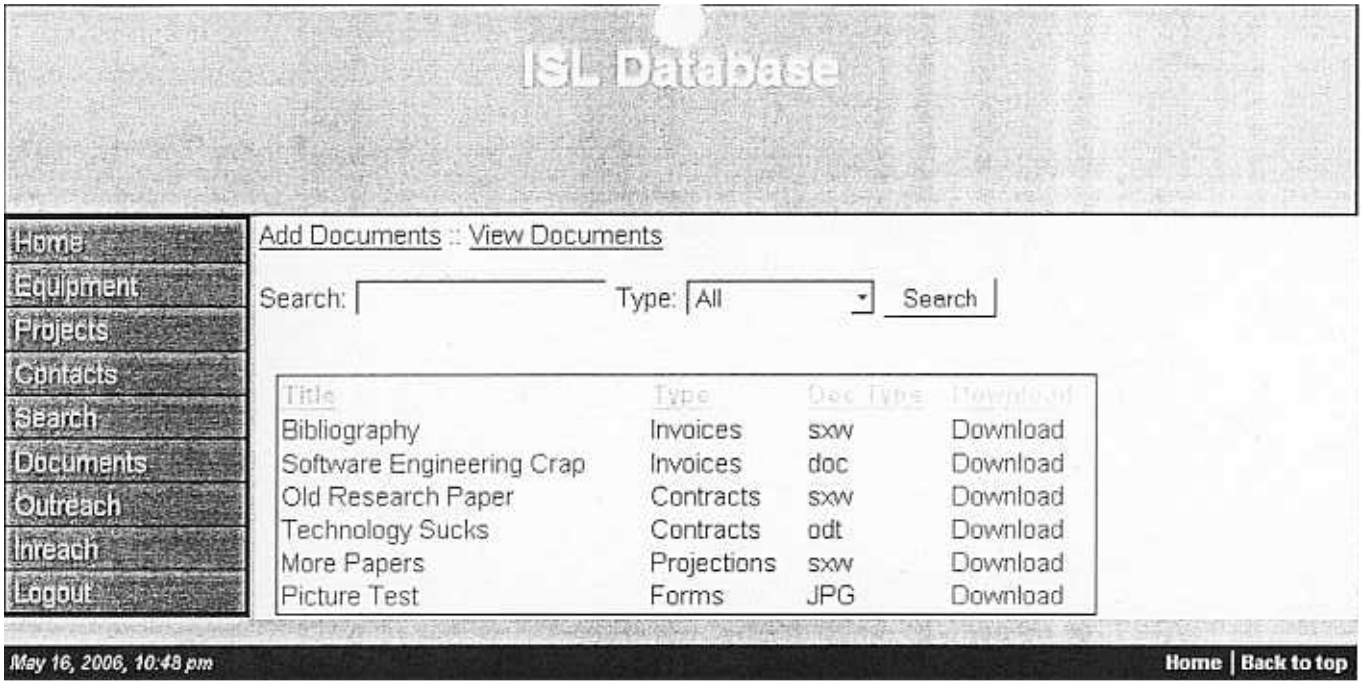
Inreach
Logout
Add Project :: View Projects
Add Projects
Project name:
Status:
Description:
Start date:
End date:
DirectorID:
SponsorID:
Reset
Add
Select date...
May, 2006
Today
Mon Tue Wed Thu Fri Sat Sun
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
Select date
modify?
delete?
May 16, 2006, 10:46 pm
Home | Back to top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Inreach
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Add Documents :: View Documents
Search:
Type: All
Search
Title
Type
Doc Type
Download
Bibliography
Invoices
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Software Engineering Crap
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Old Research Paper
Contracts
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Technology Sucks
Contracts
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More Papers
Projections
sxw
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Picture Test
Forms
JPG
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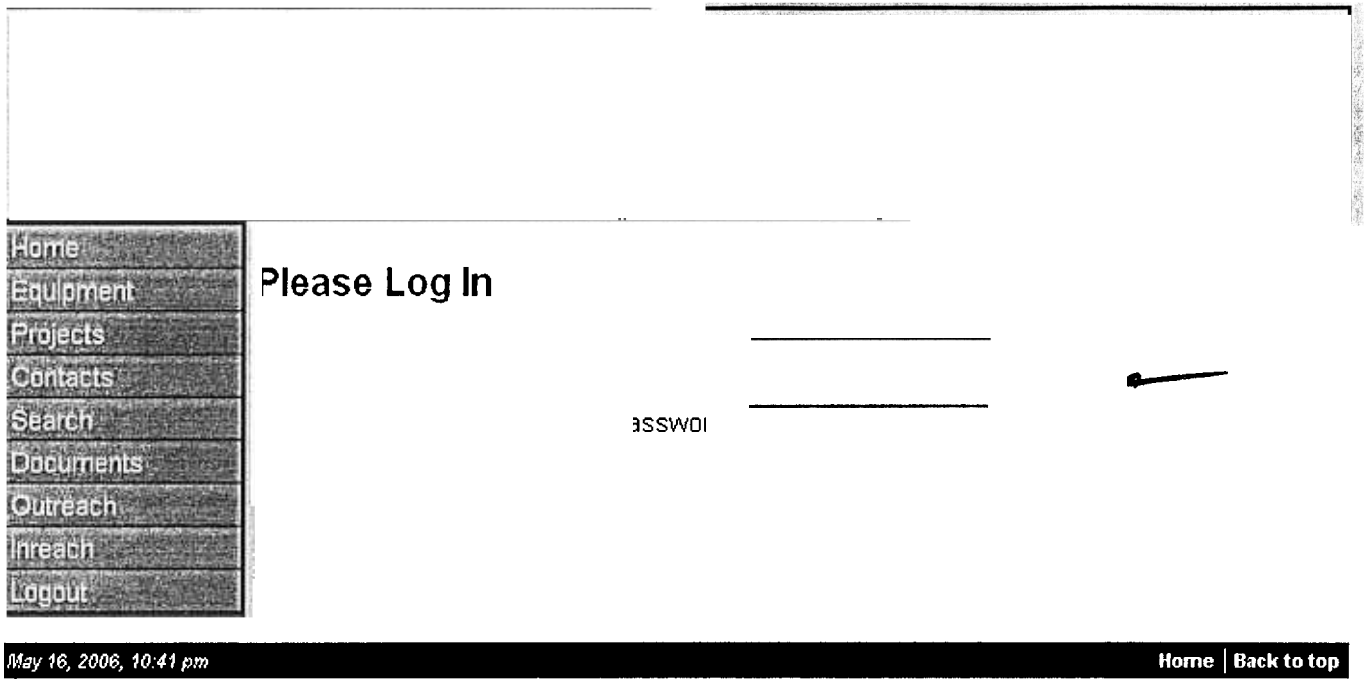
Home
Equipment
Projects
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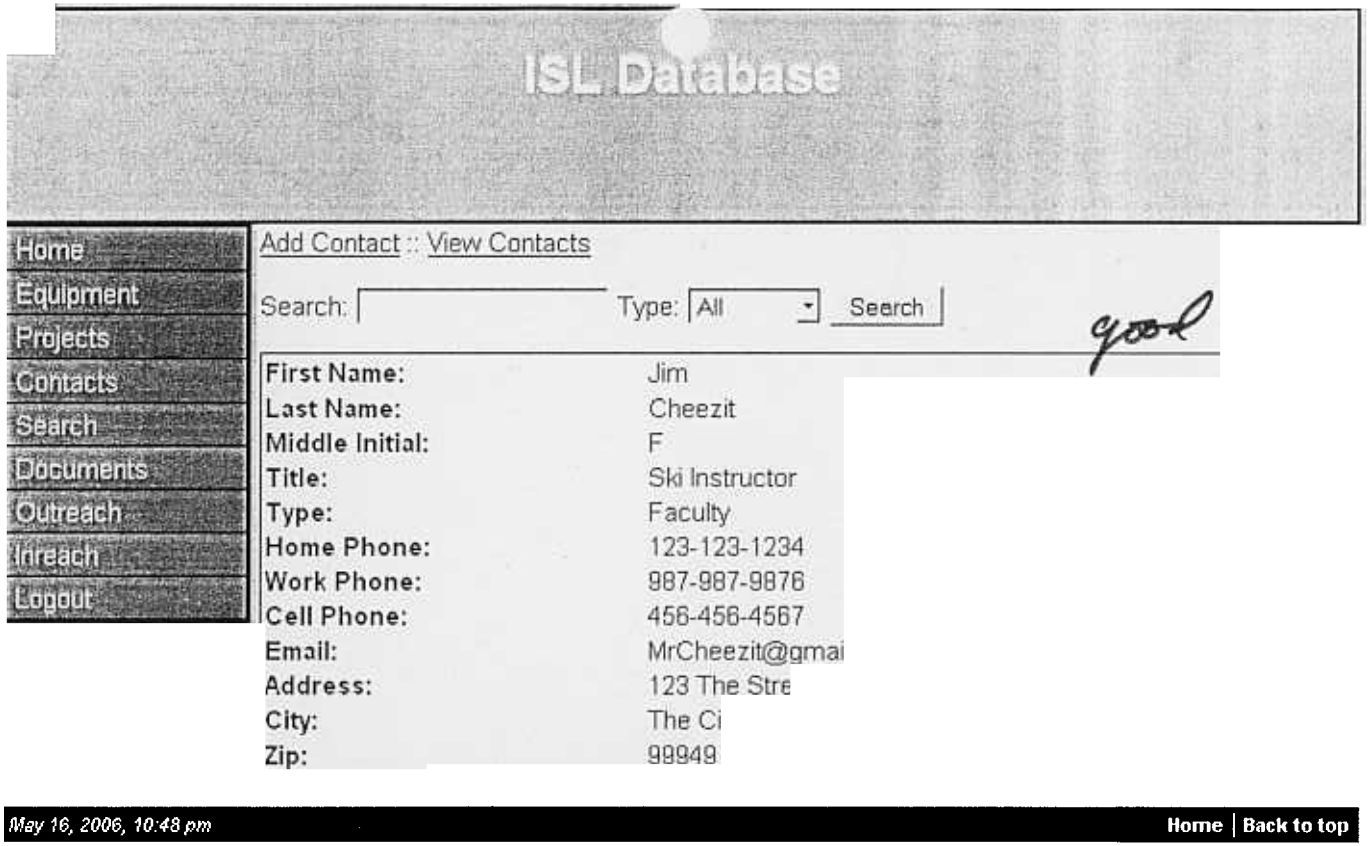
Search
Documents
Outreach
Inreach
Logout
Please Log In
ASSWOI


ISL Database
Home
Equipment
Projects
Contacts
Search
Documents
Outreach
Inreach
Logout
Add Contact :: View Contacts
Search:
Type: All
Search
good
First Name: Jim
Last Name: Cheezit
Middle Initial: F
Title: Ski Instructor
Type: Faculty
Home Phone: 123-123-1234
Work Phone: 987-987-9876
Cell Phone: 456-456-4567
Email: MrCheezit@gmai
Address: 123 The Stre
City: The Ci
Zip: 99949
May 16, 2006, 10:48 pm
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ISL Database

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Add Project :: View Projects

Name	Status	Description	Start Date	Sponsorship
Alans Project	Finished	hhhhhhhhhh	2006-05-19	1458
Rumsfelds brain	Broken	Simulates a wild monster	2006-05-01	879
Test bot	Nearing completion	Blah	2006-05-02	899
Dave's big bot	Ready	Fast and furious	1969-12-31	5675
Kenny rowdy bot	Borked	Got bots?	2006-05-12	3343
Eric!!	Rockin	Leetness	2006-05-01	7869
omg sara!111one	Hot	Rowdy	2006-06-02	566
Alan is God	Ready	No explanation required	2006-05-10	1
Scott's big bot	Handicapped	Hunk o' junk	2006-05-01	98
Benbot	Going crazy	This thing is sick	2006-05-08	334
Ben's lady bot	Broken	This one sucks	2006-05-10	2391
Ferguson's bot	In progress	Really smart robot	2006-05-10	2392
Retard	Hellooo?	Cool it, bucko	2006-05-10	788
Flying toasters	In progress	Old school, but sweet	2006-05-10	42
Sweet project	Friggin sweet	self-destructing robots	2006-05-09	666