

UC Berkeley NanoLab Summer Internship 2013

Front and back-end development of a new
website for one of the recharge centers

Nova Ng

Saratoga High School

July 25, 2013



Overview

- Machine Shop Website (Front-end)
 - Job Management System (Back-end)
- NanoLab Website (Front-end)
- Acknowledgements



Machine Shop - Home Page (Before)

Cory Hall Machine Shop

187 Cory Hall

[Home](#)

[Personnel](#)

[Awards](#)

[Equipment](#)

[Job Request](#)

[Projects](#)

[Reports](#)

[Contact Us](#)

Hours of Operation: 7:30 – 4:00 Closed: 12:00 – 12:30

You are welcome to submit jobs to the Cory Hall Machine Shop. We have the ability to handle many different types of jobs, using metals and exotic materials to fabricate small and very precise instruments, in a timely manner. Our diverse backgrounds help us find solutions to any problem you might have.



With our range of equipment in the shop, we can handle just about any job that comes along. From our precision conventional machines to our CNC lathe and 4-Axis CNC mill, we can produce very precise parts with tolerances to 0.0001".



Hours of Operation: 7:30 – 4:00 Closed: 12:00 – 12:30

- 1) [Standard Job Request](#) (To log in, please use **occecsname** and **password**)
- 2) [Job Request Form](#)
- 3) [Job Management System](#) (To log in, please use **occecsname** and **password**)
- 4) [Recharge Rate: \\$87.00/hr](#) (effective March 28, 2013)

1) The Standard Job Request is an online form that can be submitted by all customers provided Client Account information is included in the Comments section. Machine Shop will verify authorization with listed Grant Administrator or RDO.

2) The [Job Request Form](#) must be printed, completed, signed and submitted by fax, mail or in person to the Machine Shop.

Machine Shop – Pages (Before)

How to Contact Us

UNIVERSITY OF CALIFORNIA
CORY HALL MACHINE SHOP

UNIVERSITY OF CALIFORNIA AT BERKELEY
157 Cory Hall
Berkeley, CA 94720 - 1770

TEL: (510) 643 - 8400
FAX: (510) 642 - 4990
URL: <http://machopextro.berkeley.edu>

Hours of Operation: 7:30 – 4:00 Closed: 12:00 – 12:30

Engineering Technical Supervisor: Benjamin Lake benlake@eeecs.berkeley.edu
Administration: Nancy Pesheko nancype@eeecs.berkeley.edu
Recharge Rates: **\$87.00/hr** Effective March 28, 2013

Hours of Operation: 7:30 – 4:00 Closed: 12:00 – 12:30

Ben Lake
Engineering Technical Supervisor

Bob Amund
Development Technician V

Louis Atty
Development Technician V

Reports

2012 High School Summer Intern, Nathaniel Liu
2011 Machine Shop Report, Ben Lake
2011 Financial Report

Ben Lake, Senior Superintendent, won the 2006 WJ Zelling Award!

With Mrs. Zelling With wife and Moos

Hours of Operation: 7:30 – 4:00 Closed: 12:00 – 12:30	
Mills	<ul style="list-style-type: none"> • Servo Axis CNC X-62" Y-96" Z-20" • Bridgeport 18" X" C&K with DRO • TRAK 80M 11-AXIS CNC 3-31" X-11" Z-11.4
Lathes	<ul style="list-style-type: none"> • 10" Clamping with DRO • 20" Model 9 • 12" Monarch 20.1 with DRO • TRAK 80M 10
Drill Presses	<ul style="list-style-type: none"> • 10" Clamping • J.C. Walker 3-axis
Pneumatic Tapping	<ul style="list-style-type: none"> • Ener-A-Max 0.80 to 9.10" tap capacity, 14" working range
Saws	<ul style="list-style-type: none"> • Dual 24" vertical band saw • Dual 30" horizontal band saw
Shear	<ul style="list-style-type: none"> • Irons, 4 sheets, 26 gauge capacity
Grinders	<ul style="list-style-type: none"> • Walker Turner pedestal • Lathes wheel • Precision Diamond wheel • Greenfield surface 6" x 18"
Sanders	<ul style="list-style-type: none"> • Wilson belt/disc combination • CM Superstar 3rad Shear
Precision Measurement	<ul style="list-style-type: none"> • Outside micrometer set 0" - 12" • Inside micrometer set 1" - 12" • Depth micrometer set 0" - 12" • Dial indicator, 0" - 1.500"

Hours of Operation: 7:30 – 4:00 Closed: 12:00 – 12:30

Just a small sample of the type and quality of work we do here in the Cory Hall Machine Shop.

Three-Phase Free Piston Stirling Engine

A low cost solar thermal electric technology for distributed power generation (Prof. Sandberg)

REVD System

Rapid Chemical Vapor Deposition (Microlab)

Upgrades to a 4" wafer etcher

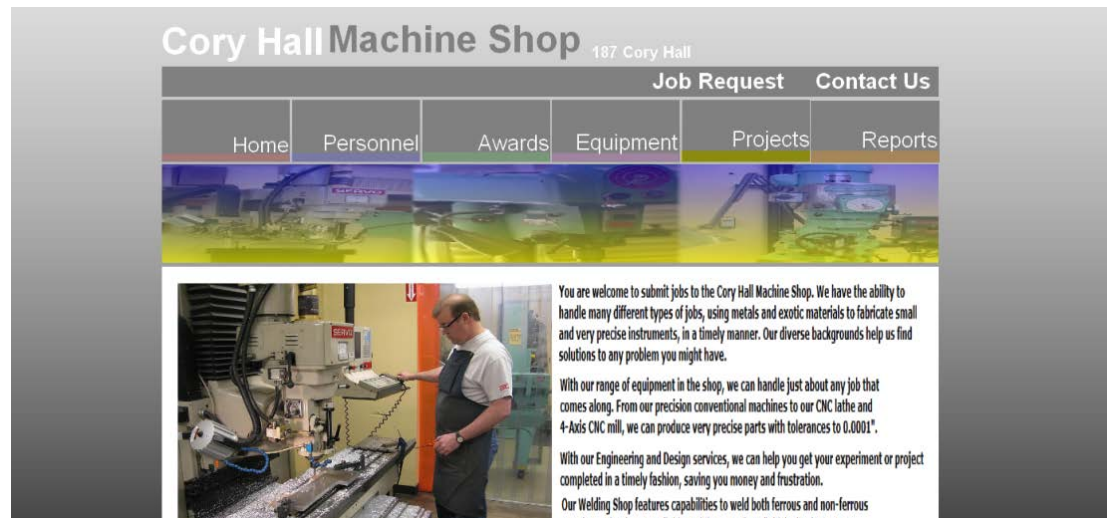
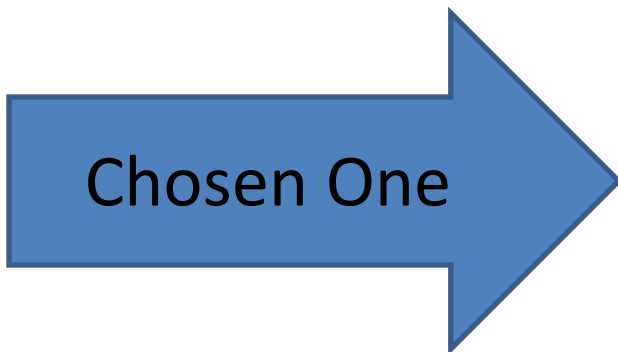
Machine Shop - Objectives

- Default Layout
- Navigation Bar
- Less Scrolling
- Consolidate Information
- “Modern” Look



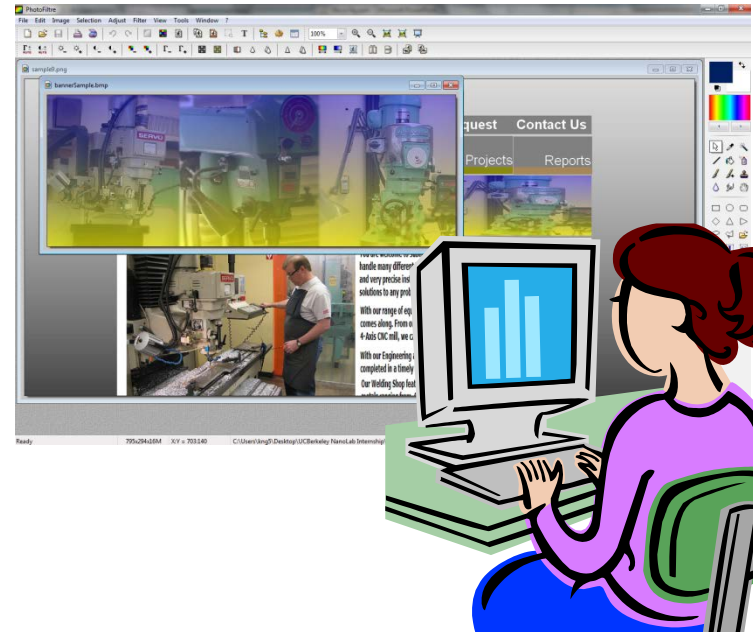
Machine Shop – Layout Mockups

Created 10 different sample layouts as a proposal for the new look of the Machine Shop website



Machine Shop - Implementation

- Redesign all pages
- HTML and CSS
 - styling the pages
- Firebug add-on
- Twitter Bootstrap
 - navigation bar
- PhotoFiltre
 - banner, background, and link images
- PhotoScape



Machine Shop - Coding

```
File Edit Search View Project Execute Debug Tools CVS Window Help
Project Classes Debug index.html
<html>
<head>
  <title>ERSO Machine Shop</title>
  <link rel="shortcut icon" href="images/icon.bmp">
  <link href="css/bootstrap-responsive.min.css" rel="stylesheet" type="text/css">
  <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css">
  <link href="css/main.css" rel="stylesheet" type="text/css">
  <link href="css/index.css" rel="stylesheet" type="text/css">
  <script type="text/javascript" src="bootstrap.min.js"></script>
</head>
<body>
  <div id="header-title"><a href="index.html" align="left"></a>187 Cory Hall</div>
  <div class="main-container">
    <div id="header">
      <div class="navbar">
        <div class="navbar-inner">
          <div class="nav-collapse container">
            <a class="brand" href="http://nanolab.berkeley.edu/">Marvell Nanofabrication Laboratory</a>
            <ul class="nav">
              <li><a href="job.html">Job Request</a></li>
              <li><a href="contact.html">Contact Us</a></li>
            </ul>
          </div>
        </div>
      </div>
      <div id="links-bar">
        <a href="index.html">
        <a href="personnel.html">
        <a href="equipment.html">
        <a href="projects.html">
        <a href="reports.html">
        <a href="awards.html">
      </div>
      <div id="banner">
        
      </div>
    </div>
  </div>
</body>
</html>
```

Firebug - ERSO Machine Shop

HTML CSS Script DOM Net Cookies

body <html

```
<html>
<head>
  <title>ERSO Machine Shop</title>
  <link href="images/icon.bmp" rel="shortcut icon">
  <link type="text/css" rel="stylesheet" href="css/bootstrap-responsive.min.css">
  <link type="text/css" rel="stylesheet" href="css/bootstrap.min.css">
  <link type="text/css" rel="stylesheet" href="css/main.css">
  <link type="text/css" rel="stylesheet" href="css/index.css">
</head>
<body>
  <div id="header-title">
    <a align="left" href="index.html">
      187 Cory Hall
    </div>
  <div class="main-container">
    <div id="header">
      <div class="navbar">
        <div id="links-bar">
          <div id="banner">
            </div>
          <div id="index-content" class="content-container">
            <div id="page-title">Welcome to UC Berkeley's Cory Hall Machine Shop</div>
            <hr size="3">
            <div id="intro-image">
            <div id="hours-of-operation">
            <div id="introduction">
            <div id="footer-image">
            </div>
          </div>
        </div>
      </div>
    </div>
  </body>
</html>
```

Style Comp... Layout DOM

```
body {
  background-attachment: fixed;
  background-color: #ffffff;
  background-image: url(/images/background.bmp);
  background-position: center center;
  background-repeat: no-repeat;
  background-size: 100% 100%;
  height: 100%;
  text-align: center;
}

body { bootstrap.min.css (line 9)
  background-color: #ffffff;
  color: #333333;
  font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
  font-size: 13px;
  line-height: 18px;
  margin: 0;
}
```

Inherited from html

```
html { bootstrap.min.css (line 9)
  font-size: 16px;
}
```

UCBerkeley NanoLab Internship > Machine Shop

Organize Include in library Share with Burn New folder

Name	Date modified	Type	Size
css	6/25/2013 10:05 AM	File folder	
images	7/25/2013 10:47 PM	File folder	
reports	6/25/2013 11:30 AM	File folder	
awards.html	7/26/2013 12:27 AM	Opera Web Docu...	3 KB
contact.html	7/26/2013 12:32 AM	Opera Web Docu...	4 KB
equipment.html	7/26/2013 12:41 AM	Opera Web Docu...	13 KB
index.html	7/25/2013 10:41 PM	Opera Web Docu...	5 KB
job.html	7/26/2013 12:47 AM	Opera Web Docu...	4 KB
jobreq.pdf	6/27/2013 3:19 PM	Adobe Acrobat D...	47 KB
personnel.html	7/25/2013 11:41 PM	Opera Web Docu...	6 KB
projects.html	7/26/2013 12:51 AM	Opera Web Docu...	6 KB
reports.html	7/26/2013 12:52 AM	Opera Web Docu...	3 KB

12 items

Machine Shop - Home Page (After)

Cory Hall Machine Shop 187 Cory Hall

Marvell Nanofabrication Laboratory

[Job Request](#) [Contact Us](#)

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[Reports](#)

[Awards](#)



Welcome to UC Berkeley's Cory Hall Machine Shop



Hours of Operation: 7:30am - 4:00pm

Closed: 12:00pm - 12:30pm

You are welcome to submit jobs to the Cory Hall Machine Shop. We have the ability to handle many different types of jobs, using metals and exotic materials to fabricate small and very precise instruments, in a timely manner. Our diverse backgrounds help us find solutions to any problem you might have.

With our range of equipment in the shop, we can handle just about any job that comes along. From our precision conventional machines to our CNC lathe and 4-Axis CNC mill, we can produce very precise parts with tolerances to 0.0001".

With our Engineering and Design services, we can help you get your experiment or project completed in a timely fashion, saving you money and frustration.

Our Welding Shop features capabilities to weld both ferrous and non-ferrous metals ranging from .005" thin stainless steel to 1" thick aluminum. We specialize in ultra-high vacuum

Cory Hall Machine Shop

Marvell Nanofabrication Laboratory [Job Request](#) [Contact Us](#)

[Home](#) [Personnel](#) [Equipment](#) [Projects](#) [Reports](#) [Awards](#)

Job Request

Hours of Operation: 7:30am - 4:00pm Closed: 12:00pm - 12:30pm

The [Navarro Job Request](#) is an on-line form that can be submitted by all customers provided [Chart of Account](#) information is included in the Comments section. Machine Shop will notify authorization with [Lead Order Administrator](#) or RSO. [\(To log in, please use encasement and password\).](#)

The [Job Request Form](#) must be printed, completed, signed and submitted by fax, mail or in person to the Machine Shop.

[Job Management System](#)
[\(To log in, please use encasement and password\).](#)

Recharge Rate: \$97.00/hr - Effective March 28, 2013

Machine Shop – Pages (After)

Cory Hall Machine Shop

Marvell Nanofabrication Laboratory [Job Request](#) [Contact Us](#)

[Home](#) [Personnel](#) [Equipment](#) [Projects](#) [Reports](#) [Awards](#)

Contact Us

University of California
Cory Hall Machine Shop
University of California at Berkeley
187 Cory Hall
Berkeley, CA 94720 - 1770
TEL: (510) 643 - 3400
FAX: (510) 642 - 6560
[URL: <http://nanofab.berkeley.edu>](#)

Hours of Operation: 7:30am - 4:00pm Closed: 12:00pm - 12:30pm
Engineering Technical Supervisor: Benjamin Lake benlake@berkeley.edu
Administrative Support: Nancy Peshette nancy@berkeley.edu
Recharge Rates: \$97.00/hr - Effective March 28, 2013








Cory Hall Machine Shop

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Personnel

 <p>Ben Lake Engineering Technical Supervisor Senior Superintendent Machine Shop 187 Cory Hall Berkeley, CA 94720-1770 TELEPHONE: (510) 643-3400 Email: benlake@berkeley.edu</p>	 <p>Joseph Gavazza Principal Laboratory Mechanician Machine Shop 187 Cory Hall Berkeley, CA 94720-1770 TELEPHONE: (510) 643-3400 Email: jgavazza@berkeley.edu</p>
 <p>Bob Amaral Development Technician V Machine Shop 187 Cory Hall Berkeley, CA 94720-1770 TELEPHONE: (510) 643-3400 Email: amaral@berkeley.edu</p>	 <p>Nancy Peshette Administrative Assistant III Machine Shop 187 Cory Hall, #770 Berkeley, CA 94720 TELEPHONE: (510) 643-3400 Email: nancy@berkeley.edu</p>
 <p>Louis Ahny Development Technician V Machine Shop 187 Cory Hall</p>	

Cory Hall Machine Shop

Marvell Nanofabrication Laboratory [Job Request](#) [Contact Us](#)

[Home](#) [Personnel](#) [Equipment](#) [Projects](#) [Reports](#) [Awards](#)

Reports

- 2012 High School Summer Intern Report - Nathaniel Liu
- 2011 Machine Shop Report - Ben Lake
- 2011 Financial Report - Nancy Peshette

Cory Hall Machine Shop

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[Home](#) [Personnel](#) [Equipment](#) [Projects](#) [Reports](#) [Awards](#)

Awards

Ben Lake, Senior Superintendent, won the 2006 Wil Ziegler Award



With wife and Nison

Cory Hall Machine Shop

Marvell Nanofabrication Laboratory [Job Request](#) [Contact Us](#)

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Equipment

Hours of Operation: 7:30am - 4:00pm Closed: 12:00pm - 12:30pm

Mills 4.00m Disk Presses Pneumatic Tapping	Precision Measurement Tooling Welding Polymer Cutting Area Various Jigs and Fixtures
Mils Saw Shears Grinders Sanders	

Send 4 Axis CNC: 4'42" X 18" Z:30



Requests (5.9' x 36" with CR1)



Truck OPM 3, 3-Axis CNC: 6.32' X 17' Z:25



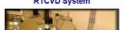

Cory Hall Machine Shop

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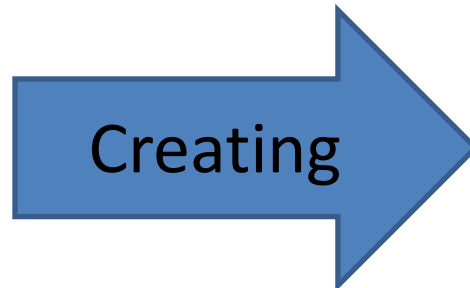
Projects

Just a small sample of the type and quality of work we do here in the Cory Hall Machine Shop.

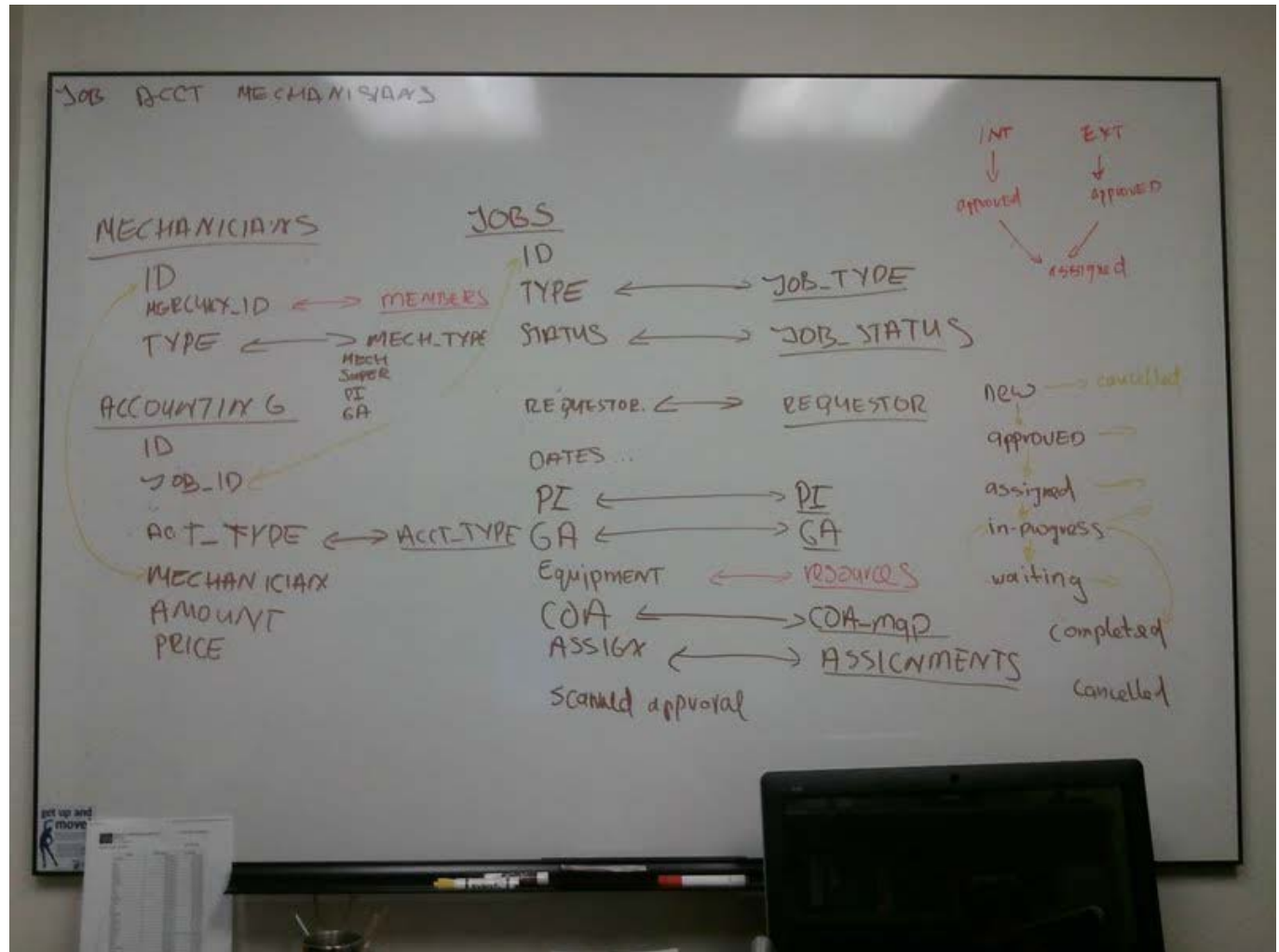
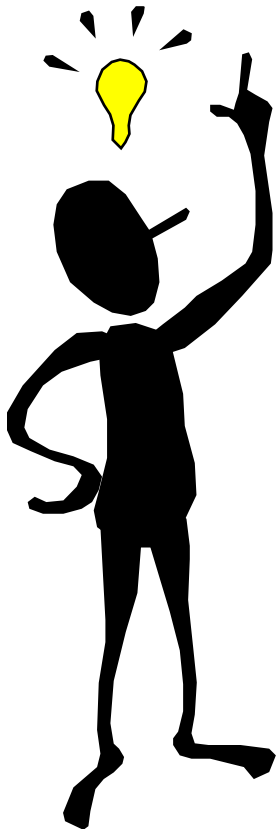
Three-Phase Free Piston String Engine  A low cost solar thermal energy technology for distributed power generation (Phil Sargent)	Upgrade to a 4" Wafer Etcher  Adapt the machine to handle 4 or 6" wafers without having to reset it for each size (BibiBibi)
RTCVO System 	Piezo-Electric Printhead 

Machine Shop – Job Management System

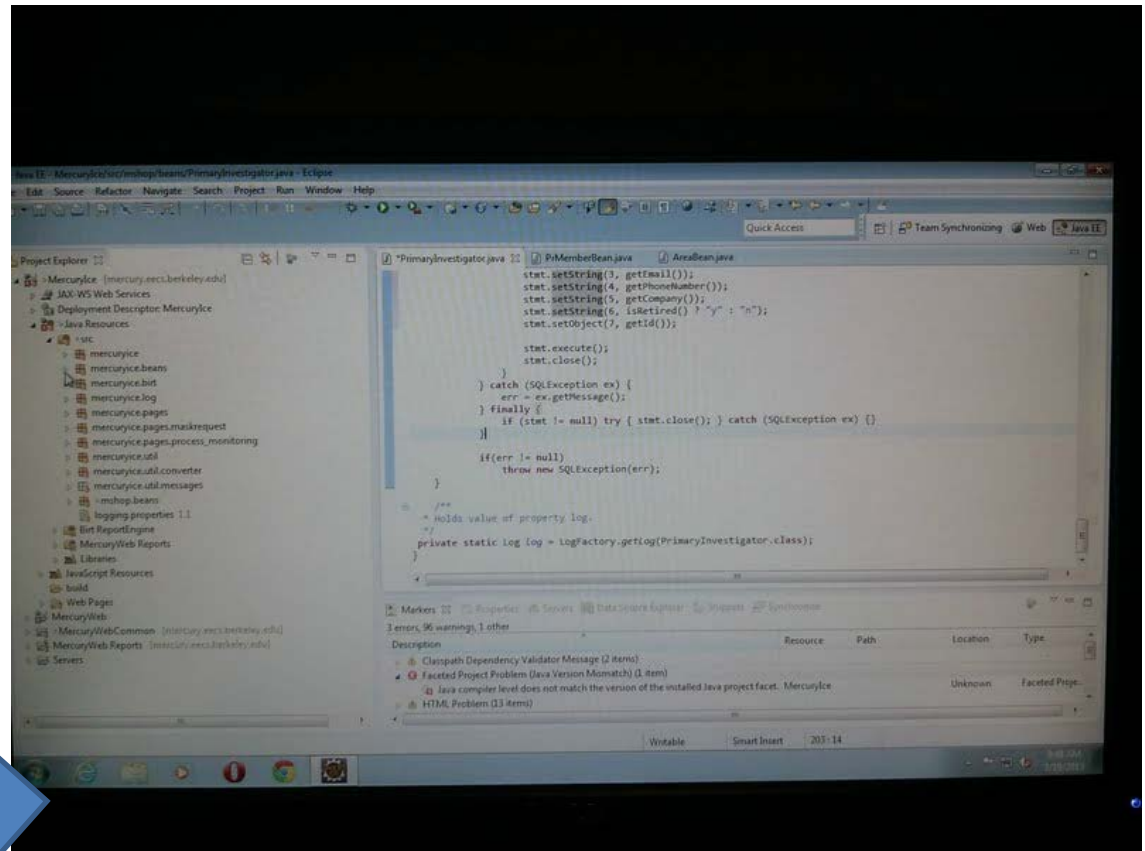
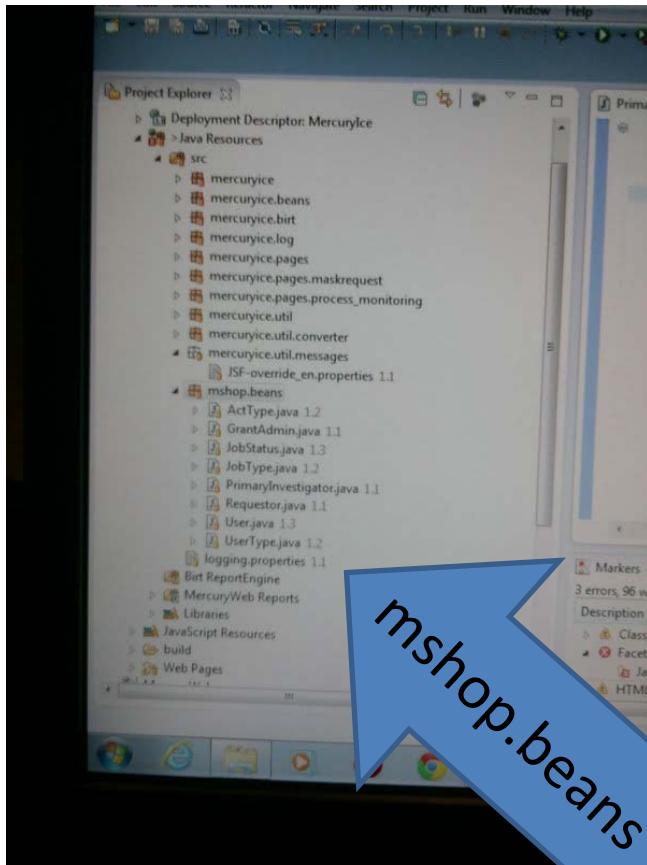
- Created 8 JavaBeans (using Eclipse IDE)
 - mechanics, jobs, and accounting
 - using SQL to access relational database management system tables
 - load and save methods
 - * insert and “delete”



Machine Shop – Job Management System: Planning




Machine Shop – Job Management System: Coding



NanoLab - Home Page (Before)

University of California, Berkeley



Marvell Nanofabrication Laboratory


MercuryWeb NanoLab Manual Members Staff

Welcome <ul style="list-style-type: none">• Introduction• Contact Us• Outreach• Nanolab History• Microlab History• Principal Investigators• Staff Organization Chart• Staff Awards	Membership <ul style="list-style-type: none">• Academic Membership• Academic Recharge Rates• Affiliate Membership• Affiliate Fees & Recharge Rates• Affiliate (BNLA) Agreement• Industry Member List• Lab Orientation Information• Orientation Presentations	Facilities <ul style="list-style-type: none">• RUMS-Nano• RUMS-Cory• Sutardja Dai Facilities• Cory Building Repair• Cory Machine Shop
Safety <ul style="list-style-type: none">• Emergency Phone Numbers• Chemical Hygiene Plan• Material Safety Data Sheets• UCB Environment, Health & Safety• Chemical Spills• Floods Response	Equipment and Processes <ul style="list-style-type: none">• Lab Manual• Equipment List• Process Modules• CMOS Baseline• Process Monitor• Mask Making• Reports	Links <ul style="list-style-type: none">• Berkeley Microlab• Cory Hall Labs• Classes & Seminars• CITRIS• EECS• ERSO• Berkeley IST CalMail• Related Programs• E³S• UC Berkeley Home

Help Maintain the NanoLab Foundation of Excellence

[Donation form](#) [Securities/Stock Donation](#) [Donors](#)

Thanks to



for supporting
Berkeley NanoLab

Marvell Nanofabrication Laboratory University of California, Berkeley

Member Menu

Marvell Lab Home MercuryWeb NanoLab Lab Manual search marvell lab

Equipment Reservations <ul style="list-style-type: none"> Reservations Reservation Policies 	Equipment Qualification <ul style="list-style-type: none"> Equipment Qualification Training FAQ Qualified Members 	Lab Computers & Phones <ul style="list-style-type: none"> Lab Phone List Lab Phone Locations Computer Use
Lab Orientation <ul style="list-style-type: none"> Enrollment Information Presentations Introduction Computers Administration Safety Processing Etiquette 	Emergency & Safety <ul style="list-style-type: none"> Emergency Phone Numbers Chemical Spills Floods Response Chemical Hygiene Plan Material Safety Data Sheets SDH Building Emergency Plan Campus EHRS 	Process Information <ul style="list-style-type: none"> Mask Making Mask Request Labmember Meetings Plasma-Therm Handouts Vendor Equipment Manuals

12/8/11

Marvell Nanofabrication Laboratory University of California, Berkeley

Staff Menu

Marvell Lab Home MercuryWeb NanoLab Lab Manual search marvell lab

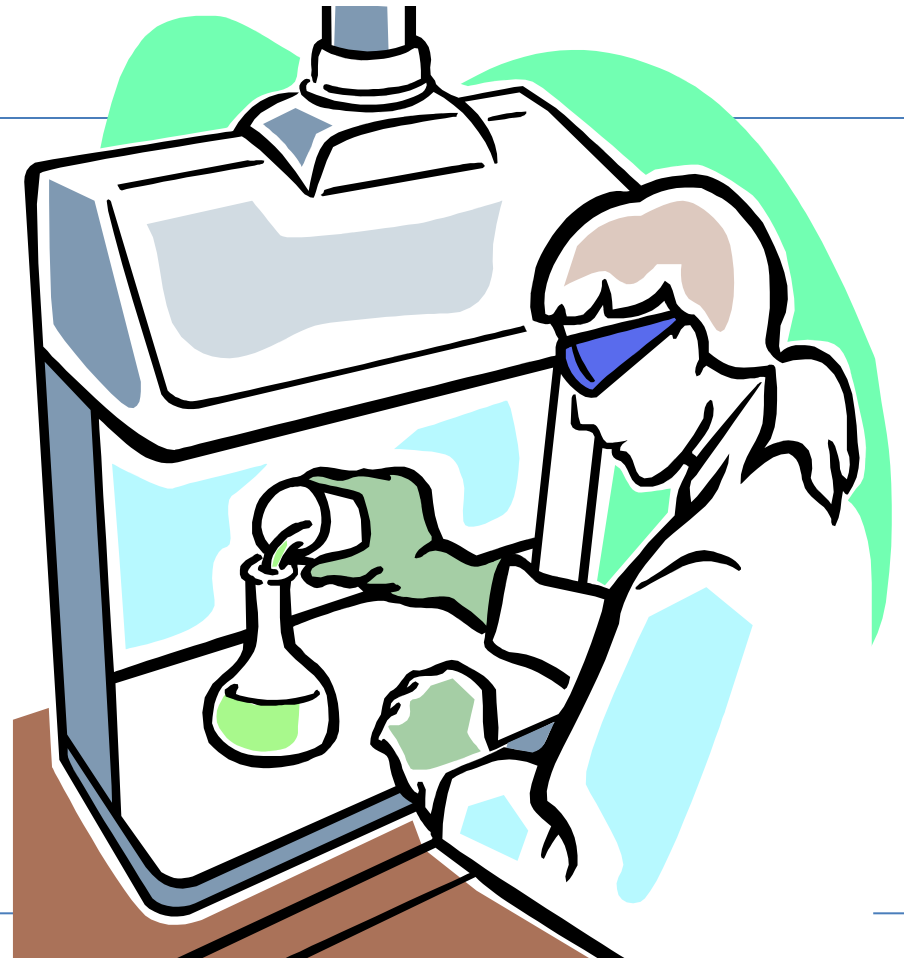
Staff Information <ul style="list-style-type: none"> Evacuation Procedures Staff Meeting Schedule Staff Contacts List Work Schedule Student Schedule SDH Office Info Phone User Info NanoLab Logos ECS Employee Info Financial Report 2009-2010 Archives 	Equipment & Utilities <ul style="list-style-type: none"> Emergency Information Vendor Equipment Manuals Equipment Notes Equipment Stored & Leaned Lab Special Tools Utilities Manuals & Info Equipment Utility Needs Form Computer & PBX Systems Read Archiver Mail NanoLab SOPs Daily Walk List of Lists Vendor Service Guidelines 	Facilities <ul style="list-style-type: none"> Computers and Phones Loc. Lab Tool Location Diagrams Power Up/Down RUMS-Nano RUMS-Cory Cases N2 Metering PPCS contacts SDH Building Emergency Plan Cory Hall Floor Plans
Orientation Scripts <ul style="list-style-type: none"> See Membership, Lab Orientation 	Process Engineering <ul style="list-style-type: none"> Cymer Laser Initialization Maintenance Tasks Process Monitoring Show Wafer Process Start Monitor Spreadsheets SVG Track System Interface Lab Manual Templates 	Baseline <ul style="list-style-type: none"> Autoprobe Supplemental BSIM Pro Procedure Information Transfer Layout Supplemental FlexFET Process

12/12/12

NanoLab – Member Portal, Staff Menu (Before)

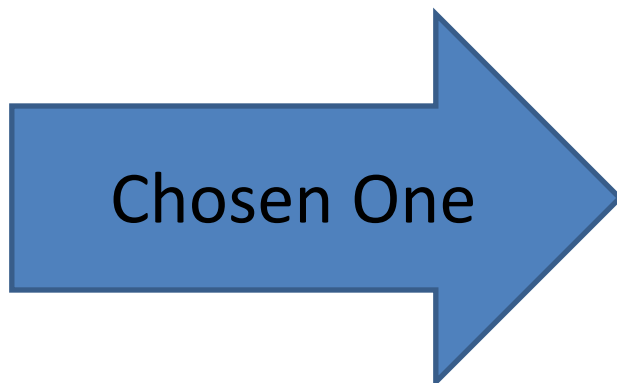
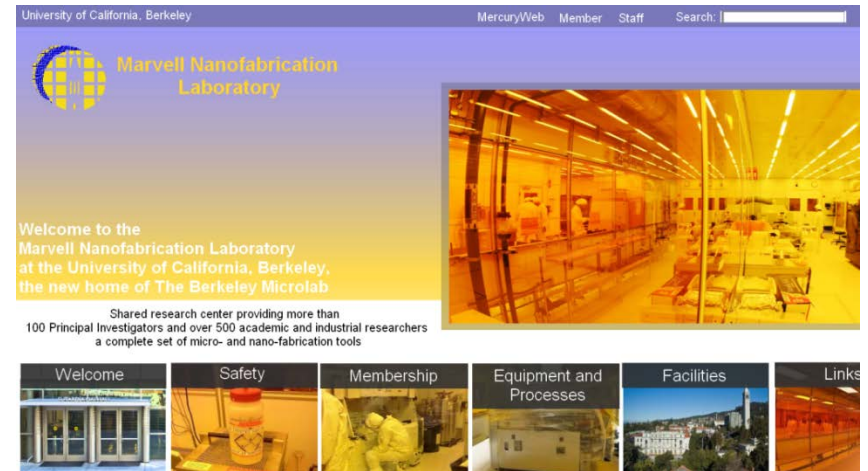
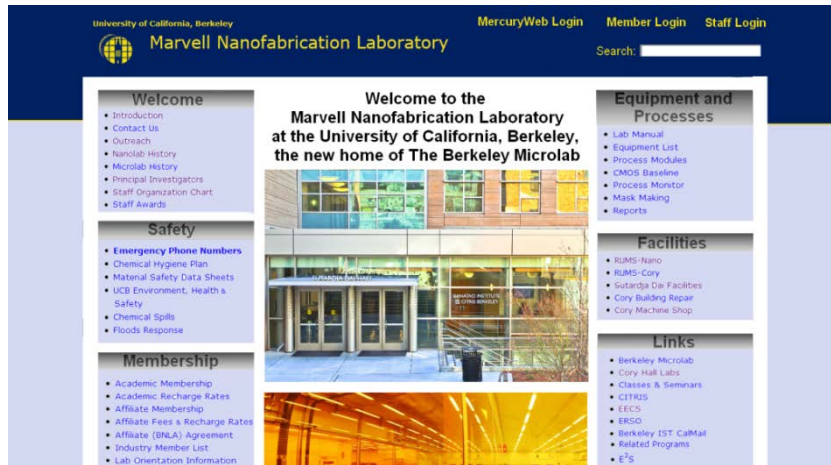
NanoLab - Objectives

- Visuals
- Easy Access to Links
- Dynamic Donations/
Supporters Box



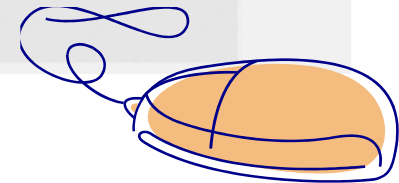
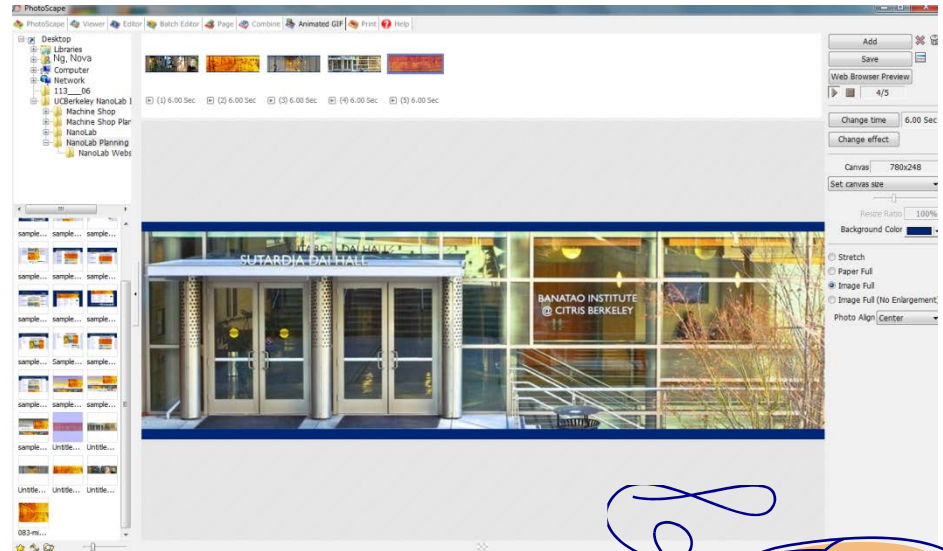
NanoLab – Layout Mockups

Created 10 different sample layouts as a proposal for the new look of the NanoLab website



NanoLab - Implementation

- Redesign home page, staff menu, and member portal
- HTML, CSS, and JavaScript
 - styling the page, rotating images
- jQuery
- Firebug add-on
- Twitter Bootstrap
 - navigation bar
- PhotoFiltre
 - photo editing
- PhotoScape
 - .gif banner



NanoLab- Coding

```
File Edit Search View Project Execute Debug Tools CVS Window Help
Project Classes Debug index.html
<html>
<head>
<meta content="text/html; charset=iso-8859-1" http-equiv="Content-Type">
<title>Marvell Nanofabrication Laboratory</title>
<link rel="shortcut icon" href="images/logo.gif">
<link href="css/bootstrap-responsive.min.css" rel="stylesheet" type="text/css">
<link href="css/bootstrap.min.css" rel="stylesheet" type="text/css">
<link href="css/main.css" rel="stylesheet" type="text/css">
<link href="css/index.css" rel="stylesheet" type="text/css">
<script type="text/javascript" src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/jquery.min.js"></script>
<script type="text/javascript" src="javascript/imageRotation.js"></script>
<script src="http://www.google.com/coop/cse/brand?form=cse-search-box&lang=en" type="text/javascript"></script>
</head>
<body>
<div class="links-bar">
<div id="mercury-portal">
<a href="http://mercuryweb.berkeley.edu/MercuryWeb/Login.jsp">MercuryWeb</a>
</div>
<div id="lab-manual">
<a href="http://nanolab.berkeley.edu/labmanual/labmanualnew.html">NanoLab Manual</a>
</div>
<div id="members-portal">
<a href="http://nanolab.berkeley.edu/NMLmembers/memberportal.html">Members</a>
</div>
<div id="staff-portal">
<a href="http://nanolab.berkeley.edu/NML/staffportal.html">Staff</a>
</div>
</div>
<div id="header">
<div id="university">
<a href="http://berkeley.edu">University of California, Berkeley</a>
</div>
<div id="cse-search-box2">
<form action="search.html">
<input type="text" onclick="this.value='';" style="background-color:#d9d9ff;" value="Search Marvell Lab" size="20" name="q">
<input type="hidden" value="011432995414602937895:xidmoo3ogu" name="cx">
<input type="hidden" value="FORID:9" name="cof">
<input type="hidden" value="UTF-8" name="ie">
</form>
</div>
</body>
</html>
```

```
Firebug - Marvell Nanofabrication Laboratory
Console HTML CSS Script DOM Net Cookies
Edit body <html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<title>Marvell Nanofabrication Laboratory</title>
<link href="images/logo.gif" rel="shortcut icon">
<link type="text/css" rel="stylesheet" href="css/bootstrap-responsive.min.css">
<link type="text/css" rel="stylesheet" href="css/bootstrap.min.css">
<link type="text/css" rel="stylesheet" href="css/main.css">
<link type="text/css" rel="stylesheet" href="css/index.css">
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.3.2/jquery.min.js" type="text/javascript">
<script src="javascript/imageRotation.js" type="text/javascript">
<script type="text/javascript" src="http://www.google.com/coop/cse/brand?form=cse-search-box&lang=en">
</head>
<body>
<div class="links-bar">
<div id="header">
<div class="navBar">
<div id="banner">
<div id="index-content" class="content-container">
<div class="footer">
</body>
</html>
Style Comp... Layout DOM
body {
background-attachment: fixed;
background-color: #002061;
background-image: url("../images/ber.bmp");
background-position: right bottom;
background-repeat: no-repeat;
font-family: Verdana, Arial serif;
font-size: 1em;
margin-left: auto;
margin-right: auto;
width: 780px;
}
body { bootstrap.min.css (line 9)
background-color: #002061;
color: #333333;
font-family: Helvetica, Helvetica, Arial, sans-serif;
font-size: 12px;
line-height: 18px;
margin: 0;
}
Inherited from html
html { bootstrap.min.css (line 9)
font-size: 100%;
}
```

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Organize Include in library Share with Burn New folder

Name	Date modified	Type	Size
resources	7/24/2013 2:41 PM	File folder	
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