

Max Ratner
San Francisco, CA 94132
www.installerworld.com
Maxr525@aol.com

OBJECTIVE

Seeking a position as entry level engineer or Internship with an engineering firm.

EDUCATION

San Jose State University, 2009-Current

- Current Overall GPA 3.47
- Pursuing a degree in Mechanical Engineering (Mechatronics)

City College of San Francisco, 2002-2009

- Received an Associate's Degree in Engineering
- Initial emphasis on Computer Science. Completed 10 units of C++ programming language with exposure to UNIX.
- Member of CCSF Engineering Club.
- Engineering GPA 3.5

COMPUTER SKILLS

Programs/Languages: AutoCAD 2000-2011 (750+ hours), Pro-E Wildfire5, Inventor 2008-2011, SolidWorks 2008-2009(500+ hours), Surfcam, Mastercam X3, C++, Matlab 7.0, Multisim 9, Matlab 2008, LabVIEW, Mach 3, Acrobat Pro Extended.

Operating Systems: Windows 98/XP/VISTA/7, UNIX.

Office Software: MS Office, Adobe Premier, Adobe After Effects

EXPERIENCE

Mechatronics Lab Instructor, San Jose State University. 2010-Current

- Oversaw 40 students during the lab session and answered questions.
- Developed new labs for students to perform.
- Assigned and graded lab reports written by the students.
- Developed a process for in-house PCB manufacturing, to use in labs.

Project Engineering Intern, Peterson Power Systems. Summer 2010

- Developed 3D CAD capabilities of Sales and Engineering Department.
- Worked with other project engineers on submittal for customers.
- Taught the project engineers to use Autodesk Inventor for proficient use with large Caterpillar® generator set assemblies as well as demonstrated new features in AutoCAD 2011 LT.
- Created "As Built" drawings of Generator Sets and wiring schematics in AutoCAD for submittals and O&M's.
- Continued as an on-call 3D draftsman.

Tooling and Machining Assistant, Powercut Modern Technology. 2002-2003.

- Read blueprints for various parts such as bushings, cases, templates, prototyping designs
- Used computer modeling packages - AutoCAD & Surfcam - to draw up the blueprints and generate G-code.
- Setup/Operate CNC machines for various process tools.
- Cut and prepared various steel and aluminum billets as well as various plastic compounds for machining.

- Deburred final products.

Assistant Manager of Sales and Installation, Circuit City. 2005-2007.

- Oversaw the installation shop and product installations.
- Resolved customer service issues.
- Maintained budget numbers for sales aspect of the department.
- Trained and certified new associates in both sales and installation.
- Performed inventory maintenance to ensure the system synched with on-hand products.
- Monitored installers to ensure that they hit their install budgets.

Car Audio Installer, Circuit City. 2002-2005.

- Installed and repaired complex alarms, radios, speakers, and other car electronics.
- Performed custom installations using fiberglass, plastics, and various other fabrication materials.
- Read complex wiring schematics and interpret on how to build them.
- Contacted insurance companies for installation payment.
- Kept up with various new car technologies.
- Designed and maintained electronic test equipment for testing of speaker polarity and 12V power.

Sales Counselor, Circuit City. 2000-2002.

- Learned in-store current products and features.
- Maintained inventory of the store products via company's internal computer sales system.
- Cleaned and maintained the department.
- Greeted customers and offered assistance.

PROJECTS

CNC Mill Development, Summer 2009

- Designed, fabricated, and assembled a fully functional computer controlled mill.
- Used Solidworks 09 to analyze and create a working model.

Balsa Wood Truss Design/Analysis, Fall 08

- Designed in AutoCAD 09, analyzed in excel and fabricated a balsa wood truss.
- The 12 gram truss handled a 96lb load under compression before failure.

Oak Geared lifter, Spring 08

- Objective was to build an all natural ramp without using any metal or plastics.
- Designed the lifter using AutoCAD 08.

AWARDS

David Brown Fellowship in Mechatronics, San Jose State University 2010