

# Samuel R. S. Barnes

## CAMPUS:

440 E. Ferry St.  
Detroit, MI 48202  
209-489-7511  
barnsa@wayne.edu  
www.SamuelBarnes.net

## PERMANENT:

2369 E. Olive Ave.  
Merced, CA 95340  
209-388-9985

## EDUCATION: **Bachelor of Science in Engineering Concentration Electrical, May 2005**

### **Minors: Spanish and Math**

Walla Walla College, College Place, Washington

Spanish minor obtained at: Universidad de la Plata, L. San Martin, Argentina

Cumulative GPA 3.92/4.0

## PROJECTS:

- Senior Project, Power House Windows  
Written and oral proposal to faculty to secure approval  
Designed and built embedded controller
- Double Inverted Pendulum  
Balanced the system using a digital controller
- AM Radio  
Designed and built an AM band radio
- EKG Machine  
Designed hardware and software for an EKG machine that could read the heart rate from a signal, and output a simulated EKG signal
- Alarm Clock  
Programmed an alarm clock on an 8051 embedded system

## RELEVANT

### COURSES:

Communication Systems	Modern Physics
Digital Control	Propagation and Radiation
Signals and Systems	Embedded Systems

## EXPERIENCE: **Academic Technician, November 2002 to Present**

### **Information Services, Walla Walla College, College Place, WA**

- Instruct computer users of various skill levels
- Ability to troubleshoot hardware and software issues and resolve them efficiently

### **Math/Computer Science Reader, September 2000 to May 2002**

#### **Math/Computer Science Dept., Walla Walla College, College Place, WA**

- Lab assistant in Intro to Programming C++ class.
- Graded homework and tests for various math and computer science classes.

## ACTIVITIES:

- Secretary, IEEE Student Chapter, 2004-2005
- Member, IEEE Student Chapter, 2003-2004
- Service Day Participant 2001-2003