

Raul Peña

621 North Maple St. Alton TX, 78573
(956) 424-5883

nb-raul@live.com

URL: <http://self-assembly.net/rpena/>

Education: Currently at University of Texas Pan-American (UTPA), Edinburg TX
Computer Science Major with Math Minor
Anticipated Graduation Date: May 2012
GPA: 3.89

Related Coursework:

Theoretical Foundations of Computation	
Computer Networks	Systems Programming
Artificial Intelligence	Software Engineering
Programming Languages	Algorithms & Data Structures
Object Oriented Programming in Java	Several courses using C++
Computer Architecture and Assembly Programming	Programming in the Unix/Linux Environment
Linear Algebra	Discrete Math
Calculus I, II	Probability and Statistics
Differential Equations	

Research: Algorithmic DNA self-assembly. More specifically, I am working on algorithms for the modeling of self-assembling DNA tiles for efficient constructions.

Publications: UTPA HESTEC Poster: "Vector Generation for Self-Assembly Compatibility Matrices."

Work Experience: University of Texas Pan-American
Edinburg, TX
August 2011 – Present

Research Assistant

Working on solving open problems in theoretical computer science, and developing software to help with research projects.

123 Signs and Designs
Mission, TX
September 2006 – January 2009

Assistant/Record Keeper

Was responsible for keeping records of transactions and expenses, and dealt with customer support and sales.

Activities: Member of the Association for Computing Machinery (ACM) local chapter at UTPA.

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UTPA ACM Game development team leader: Working with a group of students to develop a fairly large game project to facilitate the learning of new technologies, and to introduce the less experienced programmers to game programming.

Related Skills:

- Programming Experience: Windows and Unix/Linux Environment
C, C++, Java, PHP, C#, SCHEME, HTML, CSS, JavaScript, AJAX, and MYSQL
- Web development:
Experience in full design and implementation of web pages, including work on server side scripting and content management systems.
- Software Skills:
Autodesk 3DS Max, Adobe Photoshop, Microsoft Word, Excel, Access, PowerPoint
- Languages: Bilingual in English and Spanish (speak, read, write)