

# Dumitru 'Dima' Chiriacov

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<http://dp-stuff.org/>



## PROFESSIONAL EXPERIENCE

### **NBWW and Associates;** Miami, FL, USA

Project Designer/BIM Implementation Lead (March 2011 - Present)

- Architectural Design / Production
- BIM Multi-discipline Coordination
- Revit Implementation / Firm-wide Standards Migration (CAD to BIM)
- Development of Parametric Content (Firm-wide Revit Families Library Development / Management)
- Development of custom design and PM tools (Revit API and Grasshopper, in C#/VB.NET)
- Advising on /Implementation of Parametric Project Development Strategies
- Technology Research
- Environmental Analysis / Energy Modeling (Green Building Studio, Ecotect, etc)

### **dp Stuff;** Miami, FL, USA

Owner/Applications Developer (June 2010 - Present)

- Custom Software Development for AEC
- Revit / Navisworks Add-Ins Development
- Design Technology Consultancy

### **Luiz De Basto Designs;** Miami, FL, USA

Naval 3D Modeler (January 2011 - March 2011)

- NURBS 3D Modeling for Mega-Yacht Designer (Rhino 3D, Grasshopper)

### **Perkins+Will;** Atlanta, GA

Architectural Intern (Summer 2008)

- Participated in schematic design phase of King Saud Bin Abdul Aziz University for Health and Sciences in Riyadh, Saudi Arabia. The tasks on the project were: creating programmatic diagrams for the client presentation; working on the master plan development with design principle and other team members (responsible for CAD master plan development); in a team of two developed the schematic design of the Clinical Skills Development building

### **Monterey Square Properties;** Savannah, GA, USA

Architectural Freelance (May 2006- 2009)

- CAD Documentation, Residential Exterior/ Interior Design, Restoration

### **Sergei Ciuprin, Architect SRL;** Chisinau, Rep. of Moldova

Architectural Intern (2003)

- Exterior/Interior Design, Commercial/Public/Residential buildings

## EDUCATION

### **Savannah College of Art and Design;** Savannah, GA, USA

Masters in Architecture (May 2010)

Summa Cum Laude (4.0 GPA) / "Outstanding Achievement Award"

### **College of Santa Fe;** Santa Fe, NM

Liberal Arts Program (Spring 2005)

### **College of Construction;** Chisinau, Rep. of Moldova

Civil Engineering (Fall 2004)

### **Odessa State Academy of CE & Architecture;** Odessa, Ukraine

Architecture (2000-2002)

## ACADEMIC HONORS

Summa Cum Laude , "Outstanding Achievement Award", Dean's List  
Tau Sigma Delta society (top 10% of the class)  
Student-Athlete of the Year 2008-2009

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## RECENT INVOLVEMENTS

- Freelance Revit API Development (apps featured on Autodesk Exchange App Store)
- AI, Machine Learning Systems prototyping
- Web-based software development for solar energy industry
- Research in the field of renewable energy solutions (solar harvesting technologies)
- Academia involvement (SCAD and Univ. of Cincinnati), lectures on Evolutionary Solvers and Methods of Advanced Computation in Architecture

## ACADEMIA/ RESEARCH

### SCAD

Thesis Topic Consultant in the field of Application of Evolutionary Logic / Algorithms in Architecture  
Student: Shweta Dalvi (Masters in Architecture in Digital Design)

Topic: **"A Contractual Research Development Center for the Pharmaceutical and Chemical Industry"**

### SCAD; Savannah, GA

Thesis Project (Masters in Architecture): **"Analysis Data as Design Generator"**

During the course of this thesis:

- mastered a vast amount of analysis applications
- constantly worked with various analysis data and its patterns
- programmed custom tools (using VB.NET and OpenNurbs kernel) for applying the analysis data and genetic/evolutionary logic in architectural design process
- created several design and project management tools (.NET plug-ins for Rhino4)

### SCAD; Savannah, GA

Research Project (Independent Study): **"Responsive and Interactive Building Systems"**

- designed, developed and manufactured a 'smart' dynamic curtain wall component that responds to light sensors and reduces interior glare penetration
- using Processing and Arduino platform developed software for user interaction with the 'responsive' curtain wall system, its interaction with sensors and microcontrollers, and system's diagnostics

## TECHNICAL SKILLS/ SOFTWARE KNOWLEDGE

### Parametric Modeling/Scripting/BIM:

Revit Platform  
RevitAPI Development (tools/project utilities (C#), workflow customization)  
Autodesk Navisworks (PM, Clash Detection, 4D Sequencing)  
Autodesk QTO (Quantity Take-off, Pricing Reports)  
Rhino4 (Grasshopper for Rhino4 including VB.NET/C# component writing)  
DigitalProject/CATIA v5

### CAD/3d/GIS:

3DS Max (Vray/MentalRay), AutoCAD, Microstation, ArcGIS platform

### ANALYSIS APPLICATIONS:

Ecotect (analysis with data extraction/application in design), Green Building Studio, PHOENICS (analysis with data extraction/application in design), ALGOR, Abaqus/Simulia

### Programming:

C#, VB.NET, Java, C++, Processing, Arduino, Python, MATLAB, Octave, HTML/CSS, XML, VBScript

### RAPID PROTOTYPING METHODS:

Lasercutting, 3dPrinting (DirectDeposition), CNC routing, micro-controllers, sensor systems  
Arduino prototyping platform

I program custom tools in Grasshopper for manufacturing/prototyping that you can find on dp Stuff blog:  
<http://dimak1999.blogspot.com/>

## LANGUAGES

Fluent in speaking, writing and reading in English, Russian. Intermediate Spanish and French