

Dumitru 'Dima' Chiriakov

Tel. (954) 881 3904
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<http://dp-stuff.org/>

PROFESSIONAL EXPERIENCE

NBWW and Associates; Miami, FL, USA

Project Architect/BIM Implementation (August 2015 – present)

- Performed all aspects of the architectural design (spacial planning / SD / DD / CD, assisted in CA)
- Developed, reviewed and coordinated proposed project designs (utilizing BIM software) ensuring code compliance and verifying designs in the field to monitor compliance with arch documentation, while respecting established budget, schedule, site and programmatic requirements
- Performed multi-discipline BIM coordination with design consultants (MEPF, Structural, Civil, ID, Fire)
- Firm-wide 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 / Dynamo, Grasshopper, in C# and Python)
- Advised and implemented Parametric Project Development Strategies

dp Stuff; Miami, FL, USA

Owner/Applications Developer (June 2010 - Present)

- Design Technology Consultancy / Software Development for AEC (Revit Add-ins, Grasshopper/Dynamo)
- Developed working prototype for PARAFIN (www.parafin3d.com) - schematic design level AI software for hotel developers - evaluates and generates numerous design options and fin data for a given site

IDDM-ACXT; Barcelona, Spain

Project Designer/BIM Implementation (January 2015 – July 2015)

- Architectural Design / Production / Project Coordination
- SD and DD phases of four Park & Ride buildings in Riyadh, Saudi Arabia as a part of larger Metro Line development for the city of Riyadh
- BIM Technology Implementation for a multi-office AE company

NBWW and Associates; Miami, FL, USA

Project Designer/BIM Implementation (March 2011 – September 2014)

- 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)
- Implementation of Parametric Project Development Strategies / Technology Research
- Environmental Analysis / Energy Modeling (Green Building Studio, Ecotect, etc)

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. Created programmatic diagrams for the client presentation; worked on master plan development with design principle and other team members (responsible for CAD master plan maintenance); schematic design development of the Clinical Skills Development building.

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)

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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

OTHER INVOLVEMENTS - Freelance Revit API Development (apps featured on Autodesk Exchange App Store)
- AI, Machine Learning Systems prototyping
- Web-based software development for solar energy installer company
- 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/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
- 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 and Dynamo
RevitAPI Development (tools/project utilities (C#), workflow customization)
Autodesk Navisworks (PM, Clash Detection, 4D Sequencing)
Rhino4/5 (Grasshopper for Rhino4/5 including VB.NET/C#/Python custom components)
DigitalProject/CATIA v5

CAD/3d/GIS:

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

Analysis Applications: Ecotect (analysis with data extraction/application in design), PHOENICS, ALGOR, Abaqus/Simulia

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

Rapid Prototyping: Some experience with Lasercutting, 3dPrinting, CNC routing, micro-controllers, sensor systems, Arduino prototyping platform

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