

Frano Bažalo

Curriculum Vitae

Architectural Assistant (Part II) - 5 Year UK Ancestry Visa



I am an architectural designer with a specified focus in generative design and Building Information Modelling (BIM). Additionally I have strong interests in photography, digital design, digital fabrication, scale modelling, web-design, graphic design and any opportunity to express creativity. I have a Masters of Architecture (Prof) from Victoria University, Wellington where I had a heavy focus on algorithmic [parametric] logic and generative design.

Post graduation, I further pursued the role of digital design in Architecture working for ONL, an early pioneer of digital architecture based in the Netherlands.

For the past two and a half years I have worked at the Architectus NZ office. My roles ranged from conceptual early stages of design through to detailed design and documentation. I have had a side focus of pushing Building Information Modelling through documentation, model management and consultant coordination alongside a leading BIM strategist.



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Education + Qualifications

2012 - 2014	+ Victoria University of Wellington School of Architecture	-	Masters of Architecture Prof. (MArch) Honours with Merit
2012 - 2013	+ Technische Universität München School of Architecture	-	Exchange (MArch)
2009 - 2011	+ Victoria University of Wellington School of Architecture	-	Bachelor of Architecture (BArch)
2006 - 2008	+ St. Patricks College Kilbirnie, Wellington	-	National Certificate of Education (NCEA) Levels 1, 2 & 3 - Merit Endorsements

Key Strengths + Interests

+ Strong work ethic,
commitment to learn
and inquisitive

+ Strong grasp of
architectural design and
construction

+ Strong interest in generative
research and parametric
design tools and BIM

+ Proven ability to think
conceptually and
experiment formally

Software Skills

As a digital design specialist, learning a full range of software is a key element in understanding digital design capabilities. Building an understanding of software has not only been a requirement but something I enjoy learning, researching and pushing boundaries.

Three Dimensional



Grasshopper



Rhino 3D



Autodesk Revit



(CAD/CAM)
Computer Aided Manufacturing



Sketchup



Autodesk 3ds Max

Two Dimensional



Vray



Adobe Photoshop



Adobe Illustrator



Adobe InDesign



CSS / HTML



AutoCAD

Work Experience

Architectus

December 2014 - July 2017

*Auckland Office. Multi-awarding winning.
International practice.*

My role at Architectus has been varied. Much of my first 12 months was spent on conceptual work, master planning, digital imagery and competitions. The later 18 months were mainly spent on the developed design and documentation of a multi-building Student Hall of Residence. Additionally, I have had a side focus of developing office-wide BIM processes and the progression of multidisciplinary Building Information alongside consultants.

+ Concept

Worked in a team to develop architectural responses for design competitions and client engaged briefs. Conceptual work required me to think creatively and respond critically. Work included master planning exercises and would also need to comply with local building code and regulations. Responses were developed through 3D models, 2D drawings and diagrams, and high-quality 3D Visualisations. Projects would require various forms of presentations from PDF's, slideshows, videos and hard copy documents.

+ Developed Design

Developed the early conceptual architectural responses into more feasible design responses. Resolved early ideas and add resolution to areas which weren't previously considered in detail. This would involve working through key design issues and continue to develop the overall building design in response to new information and client response. This phase required a full BIM model to be assembled which can be exchanged with consultants for co-ordination.

+ Documentation + Coordination

Worked closely with the design team to resolve all elements of the building. Design continued as the finer details influenced the response. Detail was added to the BIM model, and scripts and schedules are used to withdraw detailed information about the building. Coordinated with structural, mechanical, hydraulic, fire, geotechnic engineers and landscape architects to reach a highly integrated design response. Worked with suppliers for product and spec information. Created full documentation sets for co-ordination, building consent and construction.

Freelancing

July 2017 - October 2017

Copeland Associates Architects

Parametric / Algorithmic Design Specialist

I was engaged by Copeland Associates Architects who specialise in Sporting Architecture to assist with an exciting project, in 2017.

CAA were designing a large free-spanning membrane roof for an existing velodrome track.

The firm recognised the potential value a parametric model could add to the process so I was contracted to build a robust parametric model to allow them to quickly adapt it to any design changes as the structural engineers were engaged.

+ Parametric Model

I was contracted to build a fully functioning and adaptive parametric model for an existing and developing architectural scheme. This required me to understand the principles of the existing project so I could accurately design a script which is representative to the way in which the design has evolved. Additionally it was important to understand how the project could evolve so I could build the model in a way so it could adapt and premeditate certain design alterations as the project progressed.

The idea was to provide the client with a robust parametric model which would allow them to easily make changes as the design developed and hard data was input from the engineers. The use of this type of parametric model permits a seamlessly fluid adaptively that the 3D model is always current as the design adapts to the changing parameters.

+ Design

While my role was to build a parametric model, I had to work closely with the team and discuss developments of the design. I was able to add input to design decisions to help progress the development of the design.

+ Education // Up-skilling

As part of the contract, the CAA team was highly interested in the possibilities of Parametric design. I began by demonstrating a range of possibilities with parametric and algorithmic work-flows to grow their understanding of could be achieved.

This progressed to taking several classes with two of the members, teaching them both the fundamentals tools required to start using parametric scripts but more importantly the train of thought required to use this type of work flow. This allowed them to manage and understand the complex parametric script I was writing for their design.

Work Experience

ONL [OOSTERHUIS_LÉNÁRD]

June – December 2014

Internationally renowned Dutch based Architects

At ONL I was employed as a parametric model specialist. I worked closely with the team under the supervision of Kas Oosterhuis. Projects ranged from full scale architecture, to building systems, through to furniture.

+ Parametric Models

Required to think parametrically and construct adaptive, generative models. These highly detailed models must be robust, lightweight and responsive to change with the simultaneous calculation of dynamic forms.

+ Professional Visual Presentations

Responsible for visual composition of Competition / Tender Submissions. This included digital presentation images and diagrams, back up text and visual elements of tender documents.

+ Website

As a team we constructed a new website. I was responsible for content management. www.onl.eu

+ File to Factory

All parametric systems must directly communicate with fabrication techniques. The manufacturing process must be an extension of the design process; it must inform the design and therefore the final solution is easily realised to building components and homogeneous, non-standard building elements. It was important to understand the fabrication process, so the design and script speaks a similar language to the fabricating machines, while exploring and pushing their potential.

Athfield Architects

February - March 2010

Internship at Internationally renowned Wellington based Architects

+ Site Analysis

Sketched, photographed measured and recorded specifications of the Scots College School Hall in advance for a replacement building. The documented specifications outlined architectural elements such as water mains and piles. This was later used to assist in the preparation of a demolition quote, to inform the design of the new complex and to build a digital model.

+ Scale Modelling

Built a 1:50 scale site model for the CoCA building at Massey University Wellington. It included a contoured site plan and surrounding context and buildings. The model was used to present the design proposal to the clients.

VUW Tutoring

July 2013 - June 2014

First Year Architectural Design + Communication

+ First Year Design

My responsibility was to guide and develop the student's architectural ideas and encourage the students to think both conceptually and pragmatically. I ran weekly tasks to facilitate their learning, while assisting in developing their projects.

+ First Year Communication

Senior Tutor for First Year Visual Communication paper. Required to develop students presentation techniques including visual communications, physical and digital modeling along with verbal presentation skills.

University Interests + Achievements

Victoria University of Wellington

- + Created an innovative design for an underground light-rail station in Wellington. The project was selected to represent the year group and published in the 2011 Victoria University School of Architecture magazine.
- + Two design projects were selected as exemplar works to represent the Victoria School of Architecture for the National Visiting Panel (NVP) who's job it is to assess whether the degree is worthy of professional accreditation.

- + Image from final thesis project is featured as the front cover on the 2015 Victoria University School of Architecture prospectus year book.
- + Thesis research published in CAADRIA (Computer Aided Architectural Research Design in Asia) in the 2015 edition. Additionally I presented the research at the conference held in Deagu, South Korea.

Technical University of Munich

- + An exploded detail sourced from my project featured as the front cover for the 2013 Technical University of Munich Winter Semester Book.
- + Worked corroboratively with another student to resolve a modular tower which resulted in 1:50 and 1:20 presentation models to remain on exhibition in the Technical University of Munich permanent collection.

College Awards + Leadership

St Patrick's College Awards

2008

- + First in Painting
- + First in Graphics
- + Art Painting Scholarship
- + Gordon Harris Rendering Scholarship
- + St. Patrick's College Prefect
- + Awarded St Patrick's College Leadership Award

2007

- + First in Art
- + First in Graphics
- + Seatoun Arts and Crafts Scholarship

2006

- + First in Art
- + Kyle McDonald Memorial Cup

2005

- + First in Art
- + First in Graphics
- + First in Religious Studies

2004

- + First in Art
- + First in Graphics
- + First in Technology
- + General Excellence Award
- + St Patrick's Old Boys Scholarship

REFEREES

+ Work

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ROBERT MARINO
ARCHITECTS

Reference for Frano Bazalo

24 November 2011

To whom it may concern

I taught Frano in a second year Architectural design paper and third year Architectural Construction paper. I personally tutored him in both of these papers, for which I am the course coordinator. In the Architectural design course students were required to think conceptually and experiment formally, in what was an intensive design studio. The construction course was very much centred on the technicalities of architectural practice. I found Frano to be excellent at both of these crucial aspects of architecture. Frano is a very talented and intelligent student who approaches his work in an imaginative and considered way. He has a maturity that enriches his work and a grasp of architectural design and construction beyond that of his peers. He also has an excellent work ethic and commitment to study. He is also a very collegial member of a tutorial group and a pleasure to teach. I have no reservations in recommending Frano.

Please feel free to contact me if you wish to discuss.

Yours sincerely

Simon Twose BArch(hons) ANZIA Senior Lecturer

Ph: 04 463 6169

07/23/13

To Whom It May Concern:

This letter is in support of Frano Bazalo, my student in the Winter Semester of 2012/2013, at the Technical University of Munich. During this semester I held the visiting Chair of Emerging Technology. The program for the semester was research in prefabrication, having to do in particular with vertical housing.

Frano and his partner produced the most technically inspired and complete version of this research in the entire class. The project was remarkable in its consistency of detail and its consideration of assembly techniques. In light of my own teaching experiences, at the Columbia University School of Architecture, Harvard University's Graduate School of Design, and at the University of Pennsylvania School of Architecture, I would place this work at the highest graduate level.

I give Frano my highest recommendation.

Kindest Regards,
Robert Marino, PE, RA

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