

# Pawel Sapiecha

Tucson, AZ

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## Architectural & Computational Designer

**Architectural Design**

**Generative Design**

**Programming**

**Environmental Analysis**

**BIM Integration**

**3D Modeling**

**Rapid Prototyping**

**Industrial Robotics**

<b>Degrees:</b>	<b>BA, Architecture</b> , Warsaw University of Tech. (2018) <b>BA, Urban Design</b> , Warsaw University of Tech. (2018) <b>MArch, Architecture</b> , University of Arizona (2021)
<b>Languages:</b>	Polish, English
<b>Technologies:</b>	Revit, Rhino, Grasshopper, Dynamo, Ladybug, ArcGis, AutoCAD, JavaScript, C#, Unreal Engine, Adobe CC
<b>Industries:</b>	Architecture, Fabrication, Lab Coordination

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### RELATED WORK HISTORY

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#### **Building Performance Intern**, Olson Kundig, Seattle **(Oct 2021 - Mar 2022)**

- Performed building simulations to support design decisions on projects.
- Performed energy and solar radiation studies in the early schematic design phase to determine appropriate shading and orientation for projects.
- Produced daylight and embodied carbon simulations for project teams.
- Partnered with the Director of Building Performance to develop strategies to achieve net-zero energy and carbon for projects teams.
- Produced written summary reports of completed studies to be shared with project teams.

#### **Rapid Prototyping Lab Manager**, University of Arizona, Tucson **(Feb 2020 - June 2021)**

- Researched, prepared, and implemented tools like the KUKA robotic arm, 3D printers, and Arduino electronics to model architectural research models.
- Trained and worked with over 80-student class members on fabricating architectural prototypes.
- Reorganized the \$50K worth of equipment and managed the work at the lab for the pandemic requirements.

#### **Teaching Assistant**, University of Arizona, Tucson

**(Sept 2019 – June 2021)**

- Led lectures and workshops on the use of parametric techniques in architecture
- Advised over 210 students over three semesters about digital techniques.
- Handled class documentation and reorganized materials to teach remotely.

**Intern Architect**, Kurylowicz & Associates, Warsaw

(Jul 2018 – Aug 2018, Nov 2018 – Feb 2019)

- Developed a multi-industrial conceptual design (bim model building, design of the facade, and selection of materials).
- Prepared graphic and presentation materials.
- Supported modeling and technical work.

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### ACADEMIC ASSIGNMENTS

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**Individual Research**, University of Arizona, Tucson

(2021)

- Explored capabilities of Robotic Arm to fabricate material artifacts
- Researched, selected, and implemented biomimetic principles in the design
- Developed a design technology to fabricate a building's envelope module

**Visiting Scholar**, University of Arizona, Tucson

(2019)

- Conducted research „Synthesis of Self-Adaptive Architects using Developmental Genetic Programing”

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### EDUCATION

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**Master of Architecture**, University of Arizona

(2021)

**Bachelor of Architecture & Urban Design**, Warsaw University of Technology

(2018)

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### ADDITIONAL EXPERIENCE

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- **Certifications**

**Interdisciplinary AI: Architectural Expression Through Machine Learning**, DigitalFUTURES

(2020)

- **Scholarships & Awards**

**Albert H. Drachman Memorial Scholarship**, University of Arizona

(2020 - 2021)

**Carl Rald Scholarship**, University of Arizona

(2020 - 2021)

**M.Arch Tech Stream Award**, University of Arizona

(2021)

– **Associations**

**Member**, Association of Polish Architects (2018 - Present)

– **Unrelated Work Experience**

**Event Coordinator**, Tour de Pologne, Poland (2017 - 2019)

- Designed in collaboration with an interior designer the world's first mobile museum of cycling
- Coordinated organization and installation of the exposition

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**RECOMMENDATIONS**

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**Susannah Dickinson**, Associate Professor of Architecture [srd@email.arizona.edu](mailto:srd@email.arizona.edu)

**Chris Trumble**, Associate Professor of Architecture [ctrumble@email.arizona.edu](mailto:ctrumble@email.arizona.edu)

**Paulus Musters**, Laboratory Manager [musters@email.arizona.edu](mailto:musters@email.arizona.edu)

**Aletheia Ida**, Associate Professor of Architecture [aida@email.arizona.edu](mailto:aida@email.arizona.edu)