**ARCH 3691 Advanced Design and Building Information Modeling February 2013**

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| **Your Name:** | Moshe Goldstein |
| **Name of Project:** | Hawaii, Valentina Stanavova-Broad |
| **Preference:** | I would absolutely work on this project |
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| **Use of Passive Solar Strategies** |
| Panels provide daytime shade strategically. |
| **Use of Sustainable strategies** |
| Really solved the local element challenges- Floatable structure fitting for an island. Glass dominating the skin, it sandwiches thermal fiber forming a tight envelope to prevent thermal losses. |
| **Use of Technology** |
| Cooling AC rises from floor from unit that keeps vessel balanced, LED motion censored to illuminate capsule  |

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| **Use of materials** |
| Bio materials –strong and lightweight, appropriate. Element resistant very necessary for the intended location  |
| **Photovoltaic strategy** |
| Not just for energy but also hot water a much overlooked opportunity. The panels also double as a visually appealing, client satisfying shading system. The whole system took a huge amount of solar study.  |
| **What strategy would you copy? What is the greatest strength?** |
| I love how it seems more like an aesthetic design contest and yet it is worthy of winning this competition as well. |
| **What is the greatest weakness of the entry? What would you avoid?** |
| It is inflexible, very climate specific, and likely difficult to obtain, as well as expensive. |
| **Additional comments?** |
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| **Your Name:** | Moshe Goldstein |
| **Name of Project:** | Meisha Guild |
| **Preference:** | Only second to Hawaii, this project is exceptionally successful  |
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| **Use of Passive Solar Strategies** |
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| **Use of Sustainable strategies** |
| The breeze enters at the lower level of the house and as heat rises to the upper level it gets pushed out when windows are opened. Others claim to have this advantage just by having windows but this project is shaped to promote air change.  |
| **Use of Technology** |
| This is where the men are separated from the boys. All the bi-product energy of every system is put back into the whole system so the AC unite gives off heat and that will be used to heat the water Etc. The house self monitors, its energy as well as each individual unit’s consumption. It predicts based on weather reports future energy costs and where you can save. It operates with user-friendly hand motion recognition.  |

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| **Use of materials** |
| Collapsible furniture is worth noting to allow for a micro living experience as is the growing trend maximizing every inch. |
| **Photovoltaic strategy** |
| Each panel is treated as its own utility energy source so the maximum supply is gained rather than pooling its yield and only using the average output. |
| **What strategy would you copy? What is the greatest strength?** |
| Other awesome points include, but are not limited to: lighting which turns on slowly to ease you into your morning. Blinds which close intuitively to control heat and light exposure as well as many other auto controlled devices.  |
| **What is the greatest weakness of the entry? What would you avoid?** |
| The design is bold but at first seemed crude. Also a little complex to manage in a busy lifestyle.  |
| **Additional comments?** |
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| **Your Name:** | Moshe Goldstein |
| **Name of Project:** | Amal Hashem |
| **Preference:** | Not Particularly |
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| **Use of Passive Solar Strategies** |
| The strong points of this project are its ability to passively accomplish its goals. The shading canopies simply placed blocks the direct summer high direct raise and allows lower winter raise to enter.  |
| **Use of Sustainable strategies** |
| Solar/green roof and plants control sunlight and air quality. Rain and grey water captured and reused.  |
| **Use of Technology** |
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| **Use of materials** |
| Glass, insulated. Thermo treated wood clad walls. |
| **Photovoltaic strategy** |
| Panels used for day to day usage- taking advantage of the DC and AC transforming. Love the solar thermal wall, and also the liquid desiccant walls for de-humidifying.  |
| **What strategy would you copy? What is the greatest strength?** |
| Being modular is nothing to boast about like some projects did … unless their shift-able like this one does.  |
| **What is the greatest weakness of the entry? What would you avoid?** |
| Clerestories? What is that |
| **Additional comments?** |
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| --- | --- |
| **Your Name:** | Moshe Goldstein |
| **Name of Project:** | Anil K. Dipu |
| **Preference:** | Yes mostly because the aesthetics were also taken into consideration  |
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| **Use of Passive Solar Strategies** |
| Canopy shading for intense sun rays |
| **Use of Sustainable strategies** |
| Recycles grey water. High performance insulation.  |
| **Use of Technology** |
| Ipad app tracks performance as well as air lock sensing |

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| **Use of materials** |
| Different finishing options using recycled woods. Built structure strong. Varying size units and arrangements transportable, readily accessible, and flexible  |
| **Photovoltaic strategy** |
| Now were talking. These panels are adjustable to maximize exposure plus integrated HIT sys. This accomplishes “net zero” energy balance.  |
| **What strategy would you copy? What is the greatest strength?** |
| Not too bad on the eyes either |
| **What is the greatest weakness of the entry? What would you avoid?** |
| It seems, like my E cube, where it’s a powerful design achievement but maybe for a different contest where availability, low cost, and build-ability is the mail achievement required.  |
| **Additional comments?** |
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| **Your Name:** | Moshe Goldstein |
| **Name of Project:** | Oscar Morales New Zealand |
| **Preference:** | Interesting for a container style house.. undecided |
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| **Use of Passive Solar Strategies** |
| Concrete floors radiate heat from day at night and chill from night in the day. Excess wool in the New Zealand area used for insulation. Nice. Triple glazing keeps the UV harmful rays out. Canopy panels block harsh direct sunrays.  |
| **Use of Sustainable strategies** |
| Reuses energy to give off heat or cool air  |
| **Use of Technology** |
| Achieving net zero energy |

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| **Use of materials** |
| Concrete with radiating capabilities |
| **Photovoltaic strategy** |
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| **What strategy would you copy? What is the greatest strength?** |
| Like the possibilities of decks being able to interchange between indoor and out. |
| **What is the greatest weakness of the entry? What would you avoid?** |
| Not enough here to speak of |
| **Additional comments?** |
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| --- | --- |
| **Your Name:** | Moshe Goldstein |
| **Name of Project:** | Cheng Lin |
| **Preference:** | I would maybe be interested, seemed to accomplish a lot with a little..  |
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| **Use of Passive Solar Strategies** |
| The canopy overhang we have seen in a lot of the other projects.heating and cooling from direct sunlight but I’m not clear on how. |
| **Use of Sustainable strategies** |
| Easily transportable.  |
| **Use of Technology** |
| Ipad control over temperature, light and energy uses. Motorized blinds which reduce wind load by allowing some wind to pass through I believe  |

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| **Use of materials** |
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| **Photovoltaic strategy** |
| Most importantly they have the 360 degree cylindrical style photovoltaics catching every raise from every direction. |
| **What strategy would you copy? What is the greatest strength?** |
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| **What is the greatest weakness of the entry? What would you avoid?** |
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| **Additional comments?** |
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| **Your Name:** | Moshe Goldstein |
| **Name of Project:** | New York-Solar Roofpod |
| **Preference:** | Not enough here |
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| **Use of Passive Solar Strategies** |
| Glazed Window |
| **Use of Sustainable strategies** |
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| **Use of Technology** |
| Bird-safe glass not really sure that fits with requirements but still cool |

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| **Use of materials** |
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| **Photovoltaic strategy** |
| Anti-reflective solar panels so as not too waste raise by reflecting it away |
| **What strategy would you copy? What is the greatest strength?** |
| Love the idea of fitting into the areas needs and satisfying the huge oversight of available opportunity in NY |
| **What is the greatest weakness of the entry? What would you avoid?** |
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| **Additional comments?** |
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| --- | --- |
| **Your Name:** | Moshe Goldstein |
| **Name of Project:** | Hochul Kim Canada |
| **Preference:** | Don’t like the appearance; not enough; missed the boat (as usual Canada!)  |
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| **Use of Passive Solar Strategies** |
| Produce hot water from air (not clear how) |
| **Use of Sustainable strategies** |
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| **Use of Technology** |
| Efficient self monitoring system |

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| **Use of materials** |
| affordable |
| **Photovoltaic strategy** |
| Rounded solar panels (I think this is the clients idea) and somehow got 93% high performance in Canada’s winter. |
| **What strategy would you copy? What is the greatest strength?** |
|  |
| **What is the greatest weakness of the entry? What would you avoid?** |
| Solve the heavy snow-covering panel problem anyone?? I guess the rounded panels help shed a little.. |
| **Additional comments?** |
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| **Your Name:** | Moshe Goldstein  |
| **Name of Project:** | Parsons New School for Design |
| **Preference:** | Not really |
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| **Use of Passive Solar Strategies** |
| Daylight sensors |
| **Use of Sustainable strategies** |
| Thick insulated envelopeWater tank |
| **Use of Technology** |
| Could be not clear on what their presenting |

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| **Use of materials** |
|  |
| **Photovoltaic strategy** |
| Solar panels |
| **What strategy would you copy? What is the greatest strength?** |
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| **What is the greatest weakness of the entry? What would you avoid?** |
|  |
| **Additional comments?** |
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