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Breaking each program down into microprograms, and evaluating them based on light, sound, size and time.
The Line was a seven-week multi-use project with the goal of designing a ZAC or a city block in the ninth arrondissement of Paris, France, between a park and a railway line. The program included 300 units of housing, an elementary school, an office building, and retail. Within these larger programs we identified microprograms that were shared (such as social, meeting, copy, and break rooms) and those which were more individual and repeated (apartments, offices, classrooms). We organized all of the shared programs into one continuous single-loaded line, and then wrapped this line around the site, fitting it into a general massing plan we made based on site influences such as sun, wind, and noise.

Partners: Bernardo Jimenez, David Castellano, Helene Mancaux
The shared programs vary in size and height, creating a complex volume that carves through the repetitive housing and office units. Each twist and turn in the line was intentionally planned to create outdoor voids in the block that would have irregular form derived from the different volumes of the line protruding out of the facade. The line was continuous from the housing, to the school, to the office. At the points where the larger programs changed, we chose microprograms that would fit both sides: a preschool/daycare center between the school and the office, and a gym between the school and the housing. The line includes stairs and rises several stories. It only touches the ground at the entrances to the housing, the school, and the offices.
line weaving through building masses

line of shared program

3D massing of the shared program

section of the line within building masses
view of office atrium

section A | through block and adjacent railroad
For this comprehensive studio the program was to design a widespan bowling alley, roller derby track, and restaurant, on a site neighboring Waller Creek. Both bowling alleys and roller rinks are typically housed within box buildings with unoriginal structural systems. I wanted this center to break that stereotype and give the people of Austin a new experience with the combination of these two programs under one roof. I also wanted to express the different nature of the two programs: bowling, where the ball rolls in a fairly straight line and rollerskating, where the path is chosen by the participant, and tends to be more organic. With this in mind, I placed the bowling, the restaurant and the roller derby within a rectangular box, and then weaved a curvy skating track through the building, allowing it’s organic curves to break the orthogonal box. The skating track is open air, and expands near the building entrances to allow people to slow down to enter.
interior rendering of bowling and skating track above
[ LUMINAIRE ]

This luminaire features a perforated wood column which floats on diffuse Plexiglas above a wooden base. There is a photo sensor on the top of the lamp which detects the amount of light in the surrounding area. When dark, a soft orange glow emanates from the top of the column, letting you know from a distance that the table is available. Once seated, there is a switch in the lamp cord which turns on a brighter light in the base of the column which shines upward and filters through the perforations in the wood column to illuminate the table.

Group members: Stancey Moore, Ariana Hallenbeck, Bernardo Jimenez
FULL LIT

DIMMED TOP LIGHT

PHOTOVOLTAIC PANEL

SINGLE LED LAMP

1/8” PLEXIGLAS

LASER CUT 1/4” CRAFT PLY

C7 CANDELABRA LAMP

1/8” FROSTED PLEXIGLAS
DIMENSIONS
4" x 4" x 18"

WEIGHT
2.75 IBS
This thin rectangular site is part of a larger urban plan. Its role is to link a public pedestrian-only pathway from the residential neighborhood through to Lamar Street.

The pathway divides the first two floors of commercial shops and retail. In order to achieve the desired width for housing the residential floors span across the open pathway. The Z-shape form was chosen both to let in light to the first level but also to allow the apartment units to avoid a direct view into the other units.

The apartments were lifted to provide a shared space for the residents that would include a grassy play area, a garden, and a pool.
The building was planned thinking about a specific unit design. I designed a bar of apartments which each have access to a small outdoor space that is shared between two units. Some of the units are double level, with the access to the outdoor space on the lower level. For privacy the shared outdoor space does not have an aperature on the first level, but has large openings on the second level to allow light but not views in. The opening frames the sky for the inhabitant.
The third and final visual communication course was an exploration of the digital algorithmic modeling and building information modeling software of Grasshopper and Revit, as well as continuing to utilize Rhino and Illustrator. The parametric field project used Grasshopper to generate a form from the RGB values of an image, then created drawings and a chipboard model of that form, as well as drawings and renderings.
Caret 6 is an installation built to showcase the winner of the SKIN Design Competition as part of TEX-FAB 5 SKIN: Digital Assemblies.

The project originated from a diamond module, which are combined at different scales to form a surface condition and a vaulting condition. There are three materials used in the project, Alpolic on the arching column ribs, HTPE on the ribs which are on the ground surface, and polypropylene on the surfaces of each diamond.

Studio Members:
Aarti Khatter, Alex Dallas, Alexis Meur-Belcour, Alline Kane, Bernardo Jimenez, Brenda Morlan, Estrella Juarez, Gabriel Tagliante-Saracino, Isabelle Koch, Kelsey McCarter, Kevin Keating, Layla Salameh, Michael Rahmahtoulin, Nadia Aseeva, Stancey Moore, Zach Walters
field transformation

prototype

joint connection details
surface infill

tertiary ribs

secondary ribs

primary ribs

photo by Casey Dunn, ArchDaily
The Bodhi Dharma School is a K-12 school designed for the Dalit (previously-known as untouchable) community outside of Tiruvannamalai, in southeast India.

As a studio we travelled to India to meet the community and learn about the building technologies available to the villagers who would construct the project with earth block.

The project created a naturally ventilated repeatable classroom module so that the school could expand in phases. The master plan shows groups of classrooms clustered around a common courtyard that faced the nearby mountain.

Studio Members:
Alex Dallas, Pearlene Cheah, Alex Warr, Ricardo Diaz, Rebecca Brown, Siwen Fang, Tobi Gutheil, Joel Effland, Henry Wen, Felipe Calderon, Ben Parker, Ageliki Giannisi
Dining Room/Mixed Use Vocational Training Co-Op Teaching Facility Co-Op Teaching Farm Water Retention Pond Teachers Quarters Teacher Bathrooms with Showers Storage Facility Composting Area 6th Grade Classroom 7th Grade Classroom 8th Grade Classroom 9th Grade Classroom Toilets Kindergarten Classroom 1st Grade Classroom 2nd Grade Classroom 3rd Grade Classroom 4th Grade Classroom 5th Grade Classroom Outdoor Play Area Gardens Orphanage Quarters Orphan Bathrooms with Showers Monk Quarters Monk Bathrooms with Showers Gardens Assembly Hall/Meditation Hall Pavillion Medicinal Garden 10th Grade Classroom 11th Grade Classroom 12th Grade Classroom Library Computer Lab Teacher’s Lounge Principal’s Office Toilets Outdoor Play Area Gardens Wetland Woodland Play/Quarter Size Soccer Field Kitchen
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Education
University of Texas at Austin Bachelor of Architecture May 2016
Europe Program
Travel: Netherlands, Belgium, Germany, Austria, Switzerland, France, Italy

Skills
Digital Programs | Photoshop, Illustrator, InDesign, Rhino, Grasshopper, Autodesk Revit, 3DS Max, AutoCAD, Arduino
Digital Production | construction drawings, rendering, laser-cut models, diagrams, organizational flyers
Craft | freehand sketching, drafting, model building, carpentry

Work Experience
Duda Paine Architects
Professional Residency Program | Intern Jun 2015 - Dec 2014
Created physical models by hand and using 3d printer
Worked in small teams to develop designs using CAD, Rhino, Grasshopper, and Revit
Ikon Tower Monterey, Mexico
Dimensional Place Charlotte, NC

University of Texas at Austin
Engineering Student Affairs Office | Student Assistant Aug 2013 - Mar 2014
Coordinated course scheduling in Mainframe and Blackboard for all General Engineering courses
Reorganized and maintained Excel records for General Engineering Program
New Student Services | Orientation Advisor May 2012 - Jul 2014
Led group discussions with students about social justice and campus issues
Wrote, cast, and acted in social justice and comedy programs put on for incoming students
Advised and constructed schedules for students in the Cockrell School of Engineering

Related Experience
Caret 6 Installation, TEX-FAB 5 Symposium | Kory Bieg | Student Designer & Marketer August 2013 – March 2014
Designed and produced construction documents for parametric installation Caret 6
CNC-routed and assembled over 1000 Alpolic, polypropylene, and polyethylene pieces
Promoted successful Kickstarter campaign which raised over $5000
Managed Caret 6 blog and social media accounts (Wordpress, Facebook, Twitter, Instagram)

Leadership
Undergraduate Architecture Student Council | 2013-2014 President Fall 2011 - Present
Organized and led weekly officer meetings and bi-weekly general meetings
Coordinated all internal events for the 2013-2014 year (mentorship, community service, and social events)
Attended bi-weekly Presidents Committee Meetings held by Senate of College Councils

Student Advisory Council to the Provost | Architecture Representative Fall 2013 - Present
Represent architecture students at monthly meetings with Provost Gregory Fenves

UTSOA Coordinating Committee | Undergraduate Student Representative Fall 2013 - Present
Represent architecture students at monthly meetings led by Dean Fritz Steiner and the department chairs

Mentor – UTSOA Mentorship Program Fall 2012 - Present
Mentored three underclassmen architecture students

Honors
Nominated for Design Excellence Award for Caret 6 Installation Fall 2013
Alpha Lambda Delta and Phi Eta Sigma Honor Societies Spring 2012
Friends of Alec Scholarship | Cockrell School of Engineering Fall 2011