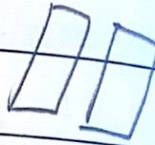


NOV. 05, 2021

ARUP

[Michael Sweeney]



- 10 years
w/ Arup

About: Architectural Engineering
- Kansas State (5 year Degree)

1st Job: Tulsa, OK

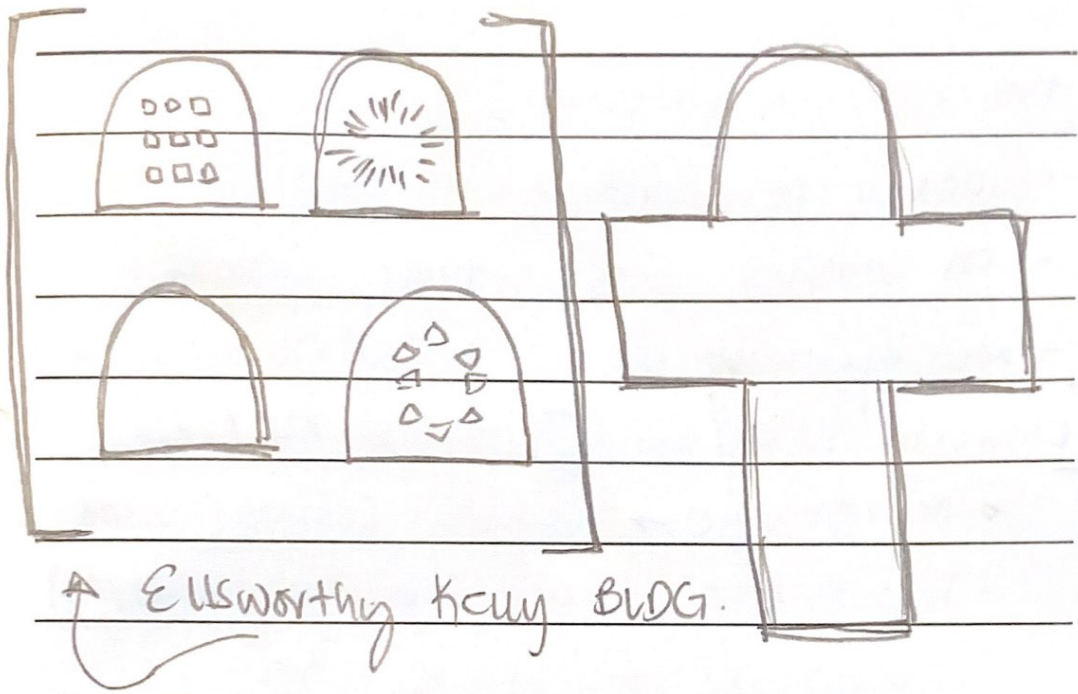
→ consulting firm

[Interests:]

- Energy modeling
- Building design
- Mechanical design
- high efficiency projects
- Marketing Director
- online energy platform
- worked in Houston in a colleague's garage.

helped develop Energy group in LA (ARUP)

↓
(OWN FIRM)



Around the Blanton Bldg (Museum)
 - on speedway -

Mechanical systems → Basement

- not cheap; especially in Austin (limestone)

[Blanton Museum]

- glass from Germany
- Return air (toe kick)
- cooling system hidden (around/bottom of the walls).
- whole ceiling of basement used as a plenum.

[Hal Weaver Power Plant]

- 100 MW power production
- on campus. uses a tunnel system
- very efficient energy production

[Ellsworth Kelly Building]

- no vestibule → (Prevents outside/inside - had to prove air from going in/out). University it's OK for this bldg to not have a vestibule.

- Wind speed / direction

data was used to see if it was feasible.

[Results:]

→ Blanton bldg acted as a blocker

⇓
Building didn't need to have a vestibule

11/05/21

QUESTIONS:

* What got you into the field that you're in right now?

* What services does your group in ARUP provide?

* Would you have had any ideas on where to put a cooling tower?

* What system would you use for heating? Boiler vs

- gas furnace
- electric resistance

[more efficient:]

longer projects

heat

◦ heat from electric sources

↓
smaller - scale projects

→ electrification (★)

- Greener / Renewable

vs burning fossil fuels.