LONG NGUYEN

LinkedIn: Silo3 CAD

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OBJECTIVE

I am currently exploring engineering opportunities in renewable energy and conservation.

SKILLS & ABILITIES

I am a technology veteran with approximately 12 years of customer facing technical communication, employee training, engineering, software development, and industrial manufacturing experience. During my career, I have directly created precision die cutting tools, designed solar tracker components, and developed mechanical design software for large scale utility solar farms while training and leading small teams with a global impact.

EXPERIENCE

MECHANICAL DESIGNER, PROVISION SOLAR

January 2019- Present

- Interface with sales team/ customers on design criteria
- Developed templates for solar permit packages
- Created configurable 3D CAD models of solar mounting equipment
- General site surveyor/ layout specialist for East Hawaii
- Gather dimensional/electrical data for design process

CONSULTANT SOFTWARE DEVELOPER/MECHANICAL DESIGNER, KILONEWTON LLC

August 2018- Present

• Completed automated design/ drafting software for solar configurator (see Array Technologies for details)

LEAD TECHNICAL GENERALIST/ TRAINER AND COORDINATOR, ARRAY TECHNOLOGIES

Process Developer/Trainer January 2015- August 2018

- Re-develop design/drafting/quoting process through software development/software integration
- Trained customer facing in-house and affiliate company designers/engineers in:
 - AutoCAD/ Solidworks
 - o In-house design software usage
 - o Technical/ Mechanical capabilities of solar tracker system
 - o Macro/script development for automated structural design
 - Customer support
- Compressed design/quoting times from 4-6 hours down to 10 minutes (final designs created at quote stage)
- Developed process for instantaneous generation of construction plans from Excel

Applications Engineering/Project Engineering/ Field Work January 2015- August 2018

- Design/draft construction plans for 1GW-3GW of solar farms annually
- Layout/stake column positions for test solar trackers.
- Coordinate test structure builds (270 Solar Panels) https://goo.gl/maps/HhYXBQcz6qLBkUHf8
- Communicate technical/mechanical requirements with customers
- Study site criteria and 3rd party products to generate solutions for customers

Software Developer January 2015- August 2018

- Independently envisioned, designed, specified, and developed automated drafting software for solar tracker construction plan sets with a maximum of 1000 CAD entities (dimensions, labels, and components).
- Created Arraynger software stack with: Java, Excel, Visual Basic, AutoCAD, Lisp
 (Arraynger is currently used at Array Technologies as the sole design verification/drafting
 software for all projects totaling approximately 3GW/year)

Mechanical Designer/CAD Specialist January 2015- August 2018

- Developed CAD block library for rapid configuration of site-specific designs
- Designed new mechanical components (Sheet metal, PVC, extruded, roll-formed)
- AutoCAD/Solidworks Trainer

Space Planning/Facilities Manager January 2015- August 2018

- Project manager for office re-configuration.
- Organized weekend office builds/ moves for ~90 employees
- Layout/ configure cubicle spaces
- Coordinate roofing, HVAC, plumbing and electrical contractors, cubicle suppliers, vendors, painters, and mural installers

Solar Farm Portfolio

- http://edifyenergy.com/projects/daydream-solar-farm/
- https://www.pnm.com/solar1
- https://solarindustrymag.com/ati-supplies-trackers-to-191-mw-springbok-2-solar-farm
- https://calpolynews.calpoly.edu/news_releases/2017/January/Solar

ADA TECHNICIAN UNIVERSITY OF NEW MEXICO

2011-2012

- Completed 20% of UNM campus ADA survey independently
- Created database with all issues noted

AUDIO VIDEO TECHNICIAN: CNM COMMUNITY COLLEGE

2005-2006

Setup multimedia systems for corporate/Educational presentations

PROPERTY /LEASING MANAGER

2005-2017

- Maintain leases for ~13 properties (single family/triplex)
- Renovate properties
- Maintain swamp coolers/furnaces
- Replace appliances as needed
- Interview/ sign tenants into leases
- Evict tenants/ rehab units and houses

EDUCATION UNIVERSITY OF NEW MEXICO/ CNM COMMUNITY COLLEGE

2002-2007, 2010-2011

Degrees B.S. Education with A.S. Engineering core Engineering Classes

Coursework: Curriculum: Calculus 3, Physics 2, Chemistry 2,

CNC & manual machining, welding, Drafting, C++,

PLC: LAB+THEORY, Electrical Engineering/Microprocessor Programming

REFERENCES John Williamson: Array Technologies Director of Engineering

John@kilonewtonllc.com 505 903 3934

Kevin Phelan: Array Technologies Lead Engineer

kphelan502@aol.com 505 903 8254

Aik-Siong Koh: CAD Software Engineer/ Creator of FreeCAD

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