



# Ashwani Kumar Jha

## Engineer and Inventor

Aiming to develop products and processes that help solve the problems in construction industry



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## WORK EXPERIENCE



### Atkins – (1st July 2019 to Present)

#### Role: 4D BIM Lead/ Information Manager

- Developed 4D integration workflow with Database Management Systems to enable robust 4D cycle
- Visited London to deliver 4D and Digital asset management presentations and workshops to the clients.
- Leading team on model coordination and information management for Nuclear projects
- Developing automation processes for model federation and production tracking
- Developed construction schedule in collaboration with design team and contractors on nuclear project In UK
- Assisted in developing BIM Execution Plan for various projects.



### Katerra – (7<sup>th</sup> Jan 2019 to June 2019)



#### Role: Senior BIM Coordinator

- Developed BIM Analytics -R&D Initiatives and Implementation plan report for Katerra
- Developed BIM execution plan for precast industry process.
- Developed tracX to track and monitor the status of different precast element at different stages.
- Worked on developing 3D site logistic plan and strategies for pre-tender on more than 4 million square feet of mixed-use development projects.

### Turner Construction Company – (6<sup>th</sup> Jan 2017 to 31<sup>st</sup> Dec 2018)



#### Role: Senior Executive – Business Development

- Developed proposals for projects in market segment like education, hospitality, airports.
- Client communication, client meetings, site visits and market study
- Collaboration within company with finance, HR and marketing head.
- Strategic thinking to develop pricing and manning on a project proposal

#### Role: VDC/BIM Engineer (Team Lead)

- BIM Team Lead- Resource management, quality check and timely deliverables of various projects from BIM Coordination, BIM Modelling, 4D & 5D BIM on a team size of 20+
- Successfully implemented BIM Coordination on complex healthcare, schools and commercial building projects in different regions of US (Houston, San Diego, Washington) & Malaysia with improved efficiency of 15% over the project duration.
- Delivered BIM Coordination project for library building in San Diego over cloud-based platform such as C4R, BIM Track & BIM 360 Glue.
- Driving daily huddle, task allocation and follow up with 4+ trade contractors in different regions
- Lean champion at Turner International. Implemented and sustained several lean initiatives at Turner International. Delivered lean presentation during weekly huddle in India and during advancing lean training in Malaysia.
- Developed Smart and Integrated Timesheet management excel based software for regulating and managing project/user data.
- Delivered 2 Days BIM Coordination Training to BIM Engineers & BIM Modellers at Turner India.
- Developed process for 4D & 5D BIM in Synchro and executed on hospital project, US.
- Developed and delivered 40 hours of Training on BIM Coordination to Turner International Team.

### vConstruct Pvt. Ltd. – (5<sup>th</sup> October 2015 to 22<sup>nd</sup> December 2016)

#### Role: VDC Engineer (Project Lead)

- Developed workflows and initial setups for BIM coordination on hospital building of 90,000 sq. ft.
- Developed workflow and worked for Virtual Mock-ups (include modelling, assembling, sequencing and presenting) at LOD 400.
- Developing framework for Visual Planning (integrating 3D, 4D & 5D BIM with VR & AR) for tracking daily construction activity on filed.
- Modelled and simulated various model elements in Autodesk Inventor 2016 for understanding various constructability issues.
- Using iConstruct for facilitating BIM Coordination projects and developed workflow to integrate in existing process.
- Worked on creating as-built models from laser scan data for hospital building of 1 million sq. ft.
- Worked on cloud environments (BIM 360 Glue, field) for seamless collaboration and facilitating BIM.



## SKILLS & COMPETENCIES



## ACHIEVEMENTS



- 10 Innovations** in last 11 months
- Received **Turner Innovation Award** 2019 for developing tool for Finance Management
- Nominated for **Excellence Award** in Technical Solutions at **Atkins**
- Visited **London, UK** to present on **4D Database** and digital asset management.
- Guest Speaker** for **All India Seminar** on New and Innovative Technologies in Civil Engineering by **Institute of Engineers** (IEI- India)
- 40,000+ views** on Quora as a BIM Writer
- 100 hrs/month** saved in Turner Construction Company
- 4 National level** workshop/ training delivered on BIM
- 1 In-house **BIM Training** for Turner International Team
- 2-Days of **Advancing Lean** Training in Malaysia.

## CERTIFICATES.



- CCA Certified** for HTML Level1
- Excel Business Intelligence** Certified by PMI (Project Management Institute vis LinkedIn Learning)
- Synchro Essentials** certified by LinkedIn Learning
- BIM Certified** by Architect- Paul Ugwu
- Creating a BIM Execution Plan & Construction Management Foundation by **LinkedIn Learning**.

## LEADERSHIP EXPERIENCE



- Team Lead at **Turner & vConstruct**
- Founder at **ASCE Student Chapter**, VIT Chennai
- Founder and President of **CIVITEK**, VIT Chennai
- President of **ICI Student Chapter**, VIT Chennai

- Worked on Facility management (reviewing as-built models, notifying subs for changes, updating new models in common data environment and presenting to client) for hospital building of 2 msqft.
- Project controls for tracking cost, schedule analysis and change management.

## INTERNSHIP EXPERIENCE

**L&T Limited** (1<sup>st</sup> June 2013 to 13<sup>th</sup> July 2013). Six week in-site training in planning, safety, quality and execution on Get- Godrej BKC Project, Mumbai.

## ACADEMIC QUALIFICATION

B.Tech in Civil Engineering from **VIT University, India** (CGPA 8.36); Intermediate in PCM from Baldwin Academy, Patna (74.4%); High School in science from Baldwin Academy, Patna (86.7%).



## SOFTWARES WORKED ON



REVIT



NAVISWORK



SYNCHRO



BIM TRACK



BLUEBEAM



INVENTOR

## PRODUCT DEVELOPMENT/ INNOVATION / LEAN THINKING



TimeString	MetaBoard	PayrollBook	MFT
<ul style="list-style-type: none"> <li>• <b>100+</b> active Users</li> <li>• Saved <b>16 hours/ month</b> for accounts</li> <li>• Saved <b>70 hours/ month</b> for TTS</li> <li>• 98% data accuracy</li> <li>• <b>98% process efficiency</b></li> <li>• <b>TimeCurve</b> for analysing data in dynamic dashboard</li> </ul>	<ul style="list-style-type: none"> <li>• <b>5</b> active users</li> <li>• Saved <b>20 hours per month</b> for leads and managers</li> <li>• Real-time high-level project data tracking</li> <li>• Used in India at BIAL Airport and in US at Orlando Airport</li> </ul>	<ul style="list-style-type: none"> <li>• <b>2</b> active users</li> <li>• <b>22 hours saved per month</b> for finance team.</li> <li>• 99% data accuracy</li> <li>• <b>97% process efficiency</b></li> <li>• Capacity to take 200% increase in data volume.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>2</b> active users</li> <li>• <b>40 hours saved per month</b> on Project.</li> <li>• 99% data accuracy</li> <li>• <b>97% process efficiency</b></li> <li>• Sold to be used in other projects</li> </ul>

## Other Products and Automation

**Referral Book** - auto referral emails for new positions to all | **Birthday Book** - auto birthday emails to all | **Huddle Board** - inspiring others by gaining presentation credit | **TI HR Calendar** - finding the right slot for monthly review meeting | **trackX** - A multi project element tracker

## OTHER SKILLS



Blogger at Design Architecture Plus, Communication, Leadership, Interpersonal and Negotiation Skills, Microsoft office. **Languages known** – English, Hindi & German (Proficiency Level A)

**Hobby:** Photography, playing piano, travelling, reading on Machine Learning, Artificial Intelligence, Computer Vision, Astrophysics, neuroscience human psychology, Augmented Reality, Virtual Reality, Mixed Reality, Internet of Things, Smart Homes, BIM, 3D printing & drones. Big fan of Elon Musk.