



MD SHOAG

Date of birth: 04/05/1997 | **Nationality:** Bangladeshi | **Gender:** Male |

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8 no shohid faruk road, 08, 1204, Dhaka, Bangladesh
Jiangsu university of science and technology, C-12(219), 212004, Zhenjiang, China

About me: I'm a Bachelor's student majoring in Civil engineering looking for a Scholarship or graduate research or teaching assistant opportunity To develop a shiny career in civil engineering and architectural-based research. My research interest areas are green buildings, sustainability, Recycling materials, waste & wastewater management, sustainable civil engineering materials, infrastructure, and transportation engineering. I will have the scope to utilize mine potentially: adaptability and skills to do something innovative and opportunity for long-term career growth and advancement.

● EDUCATION AND TRAINING

02/09/2018 – 06/2022 – Jiangsu university of science and technology, C-12(219), Zhenjiang, China
BACHELOR OF CIVIL ENGINEERING – Jiangsu University Of Science And Technology

Field(s) of study

- Engineering, manufacturing and construction : *Building and civil engineering* | *Architecture and town planning*
- Structural Engineering 1,2&3
- Building Architecture
- Structure Design principal
- Haidrolics and Fluid mechanics
- Structural mechanics
- High-rise structure design

<http://www.just.edu.cn/>

01/08/2014 – 29/12/2017 – Begum Rokeya Sarani, Agargaon, Dhaka 1207, Dhaka, Bangladesh
DIPLOMA-IN-ARCHITECTURE AND INTERIOR DESIGN – Bangladesh Technical Education Board

<http://www.educationboard.gov.bd/index.html>

01/01/2007 – 25/12/2013 – 8 no shohid faruk road, Dhaka, Bangladesh
SECONDARY SCHOOL CERTIFICATE – Jatrabari Ideal School and college

<http://www.jisc.edu.bd/>

● PUBLICATIONS

Using Recycling aluminum cans as composite materials aluminum fiber

<https://iopscience.iop.org/journal/1757-899X> – 2021

The sustained and developing construction industry needs a vast amount of material because it is becoming more extensive and sustainable day by day. Problems are also increasing in line with development. Many advanced composite materials and solutions are coming up in the current construction industry to solve these problems. However, these require more comfortable and extensive use. For that, we have to find out cheap and sustainable materials. This research paper aims to combine advanced materials and solutions to create more sustainable solutions and new materials. That will enrich the industry and increase more use in the path of development of the construction industry. The factors that have to consider in doing so, these materials and solutions are how economical, available in the market, able to solve chronic problems, easier to use, and sustainability. Recycled aluminum cans are going to be the material for this study.

Discussion on the technology of controlling thermal crack of mass concrete in the tropics

<https://www.globalscientificjournal.com/researchpaper/>

[Discussion on the technology of controlling thermal crack of mass concrete in the tropics.pdf](#) - 2021

This paper is an experimental investigation and analytical simulation of thermal effects on mass concrete structures in the tropics. A study of the temperature rise of a 1.1 m × 1.1 m × 1.1 m experimental mass concrete block, well instrumented with thermocouples to monitor the temperatures distribution was performed. A validated finite element model was used to predict the temperature development of the hydrating experimental mass concrete block. Thermal stress analysis was performed to give an estimate of stresses induced by the thermal gradient of the concrete block section and the crack index was used to quantify the probability of thermal cracking. The temperature rise during concrete hardening is caused by the hydration of cement paste [6,7]. The heat evolution of concrete is particularly important with regard to mass concrete that used for dams and large foundations in which the maximal temperature may reach even 50-70°C [8,9]. A parametric study on the effect of the surface area to volume ratio (SVR) of mass concrete was performed to quantify the maximum allowable thermal gradient as well as the induced thermal stresses that may cause thermal cracks. For SVR less than 0.36, thermal cracks may occur at early ages of concrete strength development in the tropics. Subsequently, thermal cracks occur when the tensile stress reaches the tensile strength of concrete. Researchers of this study

PLASTIC FIBER FROM RECYCLED PLASTIC BOTTLE

[https://www.abstractscorecard.com/cfp/submit/submissions/summary/view.asp?](https://www.abstractscorecard.com/cfp/submit/submissions/summary/view.asp?EventKey=HNKLBAWO&SubmissionID=1002154)

[EventKey=HNKLBAWO&SubmissionID=1002154](#) - 2021

Plastic is a miracle material. In modern civilization every day we used a lot of plastic for many purposes especially bottles for the beverage industry. These used plastic bottles are disturbing our soil and marine environment. There has some recycling process but not utilizing in our construction industry. We already know about the use of synthetic fiber in structure to make it more intensive. plastic bottle to synthetic fiber for the textile industry is becoming popular now. But the production of wastage is huge than the recycling rate for the textile industry. So we need much more recycling processes. My proposal is that use this process in our construction industry as fiber. We going to use this in structure so we don't need many refined plastics as the textile industry. This means it will be very cheaper than synthetic fiber. By this process, we can prevent the landfill of non-disposable plastic wastage. We can save our soil and marine environment altogether. In methodology, we will follow the textile industry recycling process and the ACI code for fiber.

Use of advanced civil engineering materials sustainably

[https://www.abstractscorecard.com/cfp/submit/submissions/summary/view.asp?](https://www.abstractscorecard.com/cfp/submit/submissions/summary/view.asp?EventKey=WAGYERYF&SubmissionID=1001951)

[EventKey=WAGYERYF&SubmissionID=1001951](#) - 2021

The developing construction industry needs a large amount of material to meet the requirement and solving chronic problems. Problems are increasing in line with the development of materials. Many advanced materials and solutions are coming up in the current construction industry. But the problem is that they require more comfortable and extensive use, which we don't have. These still have not been included yet in our engineering education curriculum and not even very public. As a result, the general public and project engineers are still not frequently using these materials in regular construction. This paper aims to combine the use of all those advanced materials sustainably. That will enrich the industry and increase more help in the path of development of the construction industry. The factors that have to consider in doing so these materials are how economical, available in the market, the ability to solve chronic problems, and how to use sustainably.

Use of Fiber Technology to Concrete Quality Control

2021

The developing construction industry needs a large amount of material to meet the requirement and solving chronic problems. Problems are increasing in line with the development of materials. Many advanced materials and solutions are coming up in the current construction industry. But the problem is that they require more comfortable and extensive use, which we don't have. These still have not been included yet in our engineering education curriculum and not even very public. As a result, the general public and project engineers are still not frequently using these materials in regular construction. This paper aims to combine the use of all those advanced materials sustainably Especially Fibers. That will enrich the industry and increase more help in the path of development of the construction industry. The factors that have to be considered in doing so these materials are how economical, available in the market, the ability to solve chronic problems, and how to use sustainably.

● WORK EXPERIENCE

19/02/2019 – CURRENT – Zhenjiang , China

CHINA PRODUCT SOURCING | VIRTUAL ASSISTANT | FREELANCER – UPWORK

Virtual/Administrative Assistance:-

Administrative Assistance, Office support, Web research, Meeting list maintenance, Data entry, Admin Support, Personal photography, China product sourcing Support.

China product Sourcing:-

Good sourcing ability and network, good at fashion products like garments, bags, shoes, scarves, fabrics and outdoor products, beauty products, phone accessories, molding & injection, etc. Good negotiation skills in costs, product development, and lead-time, etc; Willingness and ability to share cost-saving proposals. Business acumen in selecting and recommending the best suppliers and products through communication and factory audits. Sample collection and evaluation. On-site quality checks during bulk production and before shipment. Ability to propose the most cost-effective shipping solution. Data Collection from E-commerce sites. Key skills for sourcing:- Product research, Finding the best manufacturer, Buying a product, Product Shipping

<https://www.upwork.com/freelancers/~01bac906414ce05a67>

<https://www.upwork.com/freelancers/~01bac906414ce05a67>

01/10/2018 – CURRENT – Zhenjiang, China

DEPARTMENT COORDINATOR – INTERNATIONAL STUDENT UNION ASSOCIATION

- International Student Union Associate
- Dormitory Department management
- Dormitory management
- Assisting Art and Culture Department
- Arranging room visit
- Assist Dorm Dean

01/01/2019 – CURRENT – Zhenjiang, China

ARCHITECTURAL DESIGNER – FIVERR

- Architectural 2D Floor plan and layout with furniture
- Sections and Elevations
- Detailing drawings
- Presentation floor plan design
- Image to DWG
- Working drawing
- I provide all kinds of ARCHITECTURAL drawing
- Outstanding and welcoming customer service
- Experienced architect proficient in AutoCAD to handle your project
- High-quality floor plan in jpeg and pdf format

01/01/2016 – CURRENT – Brahmanbaria, Bangladesh

SENIOR VICE PRESIDENT – SAARC HUMAN RIGHTS FOUNDATION, BBPI BRANCH

SAARC Human Rights Foundation is working for human rights. As a Branch Senior Vice President, I had to do a lot of duties as like president. I'm used to doing some funds and research who need our supports because now I'm virtually active on the Foundation. We have supported a lot of peoples in Bangladesh.

15/09/2012 – 20/09/2012 – Dhaka, Bangladesh

WELL-BEING PERSONAL TRAINER – SAVE THE CHILDREN USA

On the first day, I had to achieve the training that how to be a personal trainer. Then from the second day, I had to take 3 training classes to the aware of anti drug activity, where each class was one and half hours and next 4 days I had the same activities and responsibilities. That's all about the entire activity.

31/10/2017 – 28/08/2018 – Brahmanbaria, Bangladesh

ARCHITECTURAL DRAFTING SPECIALIST – SANWARA ARCHITECTS

Doing design and drafting, Structure drafting, Detailed drafting, Site visit, Office management, Drafting section management

01/08/2017 – 31/10/2017 – Dhaka, Bangladesh

INTERN – BISWAS BUILDERS LIMITED

Department of design and construction, Doing design and drafting, Structure drafting, Detailed drafting, Site visit, Team management

● VOLUNTEERING

01/10/2018 – CURRENT

International student Dorm manager

Zhenjiang, Jiangsu, China

I'm responsible for managing the International student association management as well as the art and culture department. I have organized my concern 5 big programs as a singing competition, annual sports event, gala night, Christmas night, Architecture and structure design exhibition, and so on.

International Student Union Associate, Dormitory Department management, Dormitory management, Assisting Art and Culture Department

Arranging room visit, Assist Dorm Dean.

<http://en.just.edu.cn/>

01/01/2016 – CURRENT

Senior Vice President

Brahmanbaria, Bangladesh

SAARC Human Rights Foundation is working for human rights. As a Branch Senior Vice President, I had to do a lot of duties as like president. I'm used to doing some funds and research who need our supports because now I'm virtually active on the Foundation. We have supported a lot of peoples in Bangladesh.

15/09/2012 – 20/09/2012

Well-being personal trainer

Dhaka, Bangladesh

On the first day, I had to achieve the training that how to be a personal trainer. Then from the second day, I had to take 3 training classes to the aware of anti drug activity, where each class was one and half hours and next 4 days I had the same activities and responsibilities. That's all about the entire activity.

● TEACHING EXPERIENCE

12/09/2018 – CURRENT

Teaching Assistant & Class Monitor

I was assigned by the School of Architecture and Civil Engineering as a Teaching Assistant & Class Monitor of Professor liu shunqing(刘顺庆). I was affiliated with the School of overseas education and the School of Architecture and Civil Engineering for the full duration of my undergraduation.

23/02/2021 – CURRENT

Nepris Online Teacher

I have taken the time to talk with students for the Nepris session, [Cartographers](#). I used to spend some of my time on this organisation.

<https://nepris.com/dashboard/my>

28/06/2019 – 22/07/2019

Summer Camp English language and culture teacher

I was assigned as an English language and culture teacher in ABC middle school in Zhuzhou, Hunan province, China.

01/03/2019 – 30/01/2020

English Language Teacher

I was assigned as an English Language Teacher in Exclusive English Training Schoolin Xuzhou, Jiangsu province, China.

● HONOURS AND AWARDS

09/2018

Presidential Scholarship Of Jiangsu University Of Science and Technology – Jiangsu University Of Science and Technology

01/10/2018

Jasmine Jiangsu Provincial Scholarship – Jiangsu Provincial Government

Jasmine Jiangsu Provincial Scholarship is an Excellence student award that provides students who are Active Academically in extracurricular and Volunteer Activities. Each Year only 5 students are nominated to apply for this scholarship. Among them, 3 students are achieving this. They Provide around 30000 RMB each year.

<http://www.studyinjiangsu.org/lxjs/>

01/2021

Excellence student Award – Jiangsu university of science and technology

Top 5% of students are awarded this Award every year among all international students based on academics results, Extracurricular activity, and Volunteer Activities.

01/2020

Excellence student achievement award – Jiangsu university of science and technology

Top 5% of students are awarded this Award every year among all international students based on academic results, Extracurricular activity, and Volunteer Activities.

01/2019

Excellence student achievement award – Jiangsu university of science and technology

Top 5% of students are awarded this Award every year among all international students based on academic results, Extracurricular activity, and Volunteer Activities.

29/11/2019

Best Singer – Jiangsu university of science and technology

This is awarded to one such student who is the best singer in the competition Every year. I've been getting this award for the last three years.

<https://mp.weixin.qq.com/s/z5x76Od4n8OzXoCRwkXeVQ>

10/01/2016

The best young Inventor – Bangladesh Government

Every year the Bangladesh government arranges this "The best young Inventor" Exhibition. I was showing an innovative Architectural Concept; Among the 3000 projects, I got 1st price. It was really a pride for me.

10/10/2015

Best project of the year – Skill and training enhancement project

Skill and training enhancement project

● PROJECTS

10/2020 – 12/2020

Character and design report of Significant Structures Dhaka

Here you can find the structural and architectural concepts which are very important to know for the materials detailing.

first of all, I would like to share my country weather that you can understand well about materials what we use and why.

Dhaka experiences a hot, wet, and humid tropical climate. Under the Köppen climate classification, Dhaka has a tropical wet and dry climate. The city has a distinct monsoonal season, with an annual average temperature of 25 °C (77 °F) and monthly means varying between 18 °C (64 °F) in January and 29 °C (84 °F) in August.[1] Nearly 80% of the annual average rainfall of 1,854 millimeters (73.0 in) occurs during the monsoon season which lasts from May until the end of September.[1] Increasing air and water pollution emanating from traffic congestion and industrial waste are serious problems affecting public health and the quality of life in the city.[2] Water bodies and wetlands around Dhaka are facing destruction as these are being filled up to construct multi-storied buildings and other real estate developments. Coupled with pollution, such erosion of natural habitats threatens to destroy much of the regional biodiversity.[2]

Cold weather is unusual in and around Dhaka. When temperatures decrease to 8 °C (46 °F) or less, people without warm clothing and living in inadequate homes may die from the cold.

03/2020 – 08/2020

Discussion on the technology of controlling thermal crack of mass concrete in the tropics: Experimental, modelling and parametric studies

Discussion on the technology of controlling thermal crack of mass concrete in the tropics: Experimental, modelling and parametric studies

This paper is an experimental investigation and analytical simulation of thermal effects on mass concrete structures in the tropics. A study of the temperature rise of a 1.1 m × 1.1 m × 1.1 m experimental mass concrete block, well instrumented with thermocouples to monitor the temperatures distribution was performed. A validated finite element model was used to predict the temperature development of the hydrating experimental mass concrete block. Thermal stress analysis was performed to give an estimate of stresses induced by the thermal gradient of the concrete block section and the crack index was used to quantify the probability of thermal cracking. The temperature rise during concrete hardening is caused by the hydration of cement paste [6,7]. The heat evolution of concrete is particularly important with regard to mass concrete that used for dams and large foundations in which the maximal temperature may reach even 50-70°C [8,9] A parametric study on the effect of the surface area to volume ratio (SVR) of mass concrete was performed to quantify the maximum allowable thermal gradient as well as the induced thermal stresses that may cause thermal cracks. For SVR less than 0.36, thermal cracks may occur at early ages of concrete strength development in the tropics. Subsequently, thermal cracks occur when the tensile stress reaches the tensile strength of concrete. Researchers of this study developed a new automated curing system, which maintains the gap between the internal temperature and external temperature of a structure below a temperature criterion in order to minimize the thermal cracks of mass concrete. The developed curing method was successfully demonstrated through a mock-up test and a field application. Accordingly, it is concluded that the automated curing system developed in this study can improve

02/2020 – 03/2020

VACATION HOUSE - Building architecture

● LANGUAGE SKILLS

Mother tongue(s): BENGALI

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
CHINESE	B1	B1	B2	B2	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● CONFERENCES AND SEMINARS

11/03/2021 – 14/03/2021 – Singapore

2021 International Civil Engineering and Architecture Conference

I have presented my paper which was going to publish at this conference

Title: Using Recycling aluminum cans as composite materials aluminum fiber

<https://www.dropbox.com/sh/wwk41gcdppueecx/AAB6W8UYbVik3BSyhWBXX6DCa?dl=0>

25/03/2021 – Canada

IWA-YWP-Canada Pandemic and Wastewater Facilities

IWA-YWP-Canada arranged this panel Discussion about Pandemic and Wastewater Facilities

28/03/2021 – 01/04/2021 – Remote

ACI Virtual Concrete Convention

The ACI Concrete Convention is dedicated to bringing together leaders in the concrete industry. These individuals work to improve the design, construction, maintenance, and repair of concrete projects. Conventions provide a forum for networking and education and an opportunity to provide input on the concrete industry's codes, specifications, and guides. For more information,

www.aciconvention.org

Remote

Automated Driver Drowsiness Control Technology Using Artificial Intelligence-based Decision Support System

03/03/2021 – Remote

2021 Report Card Release and Solutions Summit

09/02/2021 – Remote

Excavation Support in Dense Urban Environments

SPONSORED WEBINAR provided by Bentley (bentley.com). Attendees of Live Event only, will receive a certificate of completion from Bentley.

Subsurface behavior on your mind? Whether Civil, Geotechnical, or Structural, safer infrastructure solutions require collaboration and accuracy. Comprehensive solutions for design and analysis of soils, rocks and associated structures continues to advance.

- Capture model sensitivity to input parameters and design
 - Model in real time for project stakeholder collaboration
 - Discuss where 3D analysis is making a difference
 - Consider advancements in geotechnical analysis for seismic regions
- https://zoom.us/webinar/register/tjEkfumqrz4qGtM1y7SRBy44iLXuaYUpDqb5/success?user_id=p6Co9aZwTbeG9jQ2kyrerg&timezone_id=America%2FNew_York

03/02/2021 – Remote

Infrastructure Underinvestment Is Costing Businesses and Households

ASCE recently released "Failure to Act: Economic Impacts of Status Quo Investment Across Infrastructure Systems." Join this webinar to learn about the report's findings, including how persistent failure to invest in our aging infrastructure impacts GDP, jobs, personal disposable income, and business sales. Finally, better understand how this report and its findings fit into the Society's advocacy efforts in Washington.

Speakers:

- ASCE President Jean-Louis Briaud Ph.D., PE, D.GE, DIST.M.ASCE,
 - Greg E. DiLoreto P.E., P.L.S., D. WRE, F. ASCE, Pres.13.ASCE, Committee on America's Infrastructure Chair Emeritus
 - Steven Landau, Executive Vice President, EBP US
 - Emily Feenstra, ASCE, Managing Director Government Relations and Infrastructure Initiatives
- https://zoom.us/webinar/register/tjwqdOisrD8rGtXoKyXA2nFIC0q8LkFBIsWU/success?user_id=shg-dM-aQUStjNUawHJ1MQ&timezone_id=America%2FNew_York

● **DIGITAL SKILLS**

Microsoft Excel | Outlook | Microsoft Powerpoint | Microsoft Office | Google Drive | Facebook | Instagram | Google Docs | Skype | Twitter | LinkedIn | Social Media | Written and Verbal skills | Microsoft Teams | Zoom | Good listener and communicator | Organizational and planning skills | Internet user | Team-work oriented | Decision-making | Motivated | Presenting | Critical thinking | Auto CAD Civil | High ability to use AutoCAD | Familiar with civil engineering softwares such as Revit, ETABS, Autocad | Architectural Design | SAP2000 Structural Software for Building Analysis and Design | Structural Analysis | Adobe Photoshop 2018 | Creativity | Research and analytical skills | WhatsApp | Gmail | Responsibility | Detail-Oriented | Adobe Photoshope | Land Surveying | Upwork | Fiverr | Google Youtube | google scholar | Research Gate | Civil Engineering | Academic Research | Google Scholar | Reliability

● **RECOMMENDATIONS**

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School of Architecture and Civil engineering
Jiangsu university of science and technology