

## Curriculum Vitae

---

**Elshan Bahojb Khoshnoudi**  
Sharif University of Technology, Tehran, Iran  
elshanbahojb@gmail.com, (+98) 914 119 1101

- **Education**

**Sharif University of Technology**

Materials Science and Engineering  
Bachelor of Science, GPA: 17.45 / 20 (equivalent to 3.71 / 4) 2018-2022

**National Organization for Development of Exceptional Talents**

Mathematics and Physics  
Diploma, GPA: 19.54 / 20 2014-2018

- **Honors and Awards**

Awarded as top student (Ranked 3<sup>rd</sup> among 76 undergraduate students) by the Department of Materials Science and Engineering Winter 2022

Ranked 2<sup>nd</sup> at 'Materials Challenge' research competition held by Materials science and engineering department Winter 2022

Permitted to study M.Sc. in materials science and engineering without entrance exam in Sharif University of Technology by Exceptional Talents office Fall 2022

Ranked 15<sup>th</sup> among 300 bachelor's students at National Materials Science and Metallurgy Olympiad exam 2021

Awarded as top student (Ranked 1<sup>st</sup> among 76 undergraduate students) by the Department of Materials Science and Engineering Fall 2019

- **Research Experience**

- "Prussian Blue Analogues as active material of cathode for aqueous Potassium-ion batteries" 2021 - Present

**Center of Nanostructured and Advanced Materials (CNAM),**  
Supervisor: Dr. A. Simchi

- "Grid modification of Lead-acid batteries" 2021 - 2022

**Iran's National Elites Foundation**

- **Teaching Experience**

**Teaching Assistant**  
Course: Transport Phenomena  
Dr. S.K. Sadrnezhad Spring 2022

**Teaching Assistant**

Course: Transport Phenomena

Fall 2021

Dr. S.K. Sadrnezhad

**Teaching Assistant**

Course: Electronic Properties

Fall 2022

Dr. S. Asgari

**Teaching Assistant**

Course: Characterization of Materials

Fall 2022

Dr. S. Asgari

- Work Experience**

Internship as Innovation Engineer at Amper Innovation Center for 240 hours

Summer 2022

- Workshops and Certificates**

- ‘Sharif’s webinar on Lithium-ion batteries’, Physics department, Sharif University of Technology
- ‘Scanning electron microscopy operation and applications’, Isfahan University of Technology

- Selected Academic Projects and Researches**

- ‘Application Of Polymers In Rechargeable Batteries’, Fundamentals Of Polymers Engineering Course
- ‘3D Printing Of Magnesium-Based Alloys’, Novel Methods Of Manufacturing Course
- ‘X-Ray Photoelectron Spectroscopy, Principles And Applications’, Characterization Of Materials Course
- ‘Casting Mold Design Of Bearing Cap’, Solidification Of Metals Course
- ‘Simulation Of Casting Grey Cast Iron Using Procast’, Solidification Of Metals Lab Course
- ‘Designing Brick Breaker Game Using Python’, Programming Principles Course

- Language Proficiencies**

- English (Fluent)
- Persian (National language)
- Azari and Turkish (Native)

- Computer Skills**

Python Programming

MATLAB

AutoCAD

ZView

C O M S O L  
Multiphysics

PROCAST

Microsoft Office

Origin Pro

Nova

Xpert HighScore