Ali BOZORGZADEH
Mechanical Engineer

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EDUCATION

2022–present	Research Assistant, BABOL NOSHIRVANI UNIVERSITY OF TECHNOLOGY*
2018-2022	**M.Sc. in Mechanical Engineering,** BABOL NOSHIRVANI UNIVERSITY OF TECHNOLOGY,

> THESIS TOPIC : Numerical Investigation of the Effect of Flow Pulsation and Increased Discharged Voltage on Desalination and Energy Usage of Capacitive Deionization
> SUPERVISOR : Dr. Abas Ramiar
> CGPA : 3.4

Capacitive Deionization | Electrical Double Layer | Modified Donnan | OpenFOAM

2013–2018	**B.Sc. in Mechanical Engineering**, BABOL NOSHIRVANI UNIVERSITY OF TECHNOLOGY

* Ranked 140th university in the world in engineering by the US news ranking(2022)

RESEARCH INTERESTS

COMPUTATIONAL FLUID DYNAMICS :	Numerical Methods, Programming
ELECTROKINETIC :	Dielectrophoresis, Electroosmotic, Electrothermal

PUBLICATIONS

2022	Ternary Particle Separation via Dielectrophoresis (*in prep.*)
2020	Outokesh, Masoud, Seyed Soheil Mousavi Ajarostaghi, **Ali Bozorgzadeh**, and Kurosh Sedighi. "Numerical evaluation of the effect of utilizing twisted tape with curved profile as a turbulator on heat transfer enhancement in a pipe." Journal of Thermal Analysis and Calorimetry 140, no. 3 (2020) : 1537-1553. (link)

</> PROGRAMMING & markup LANGUAGES

Language	Level
C	●●●●○
C++	●●●○○
Python	●●●○○
POSIX shell	●●●●○
Lua	●●○○○
(Emacs) Lisp	●●○○○
LaTeX	●●○○○
Markdown	●●●●●
Org	●●●○○

TOOLS

> EDITORS : `(neo)vim`, `ed`, `emacs`
> `git`, `tmux`, `ssh`, `ctags`
> COREUTILS : `find`, `sed`, `awk`, `xargs`, ...
> RegEx
> Docker
> BUILD & ANALYZE : `make`, `gdb`, `lldb`, `valgrind`, clang tools (clang sanitizers, `clangd`, `clang-format`), `bear`
> Doxygen

🖥 OPEN SOURCE PROJECTS & CONTRIBUTIONS

STDMAN   2021−PRESENT

🐙 github.com/jeaye/stdman

Formatted C++20 stdlib man pages (cppreference)

`Man pages` `C++ Standard Library`

CITLE   2022

🐙 github.com/reverseila/citle

Get citation info (BibTeX file and DOI) by providing a title

`Python` `BibTeX` `DOI`

PRONUNCIATION.SH   2022

🔗 Github Gist

A simple (POSIX-compliant) shell script that downloads the pronunciation of English words from the Cambridge Online Dictionary

`Shell Scripting` `Pronunciation`

🔤 LANGUAGES

Persian (Farsi) ● ● ● ● ●
English   ● ● ● ○ ○

❝ REFERENCES

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📖 Google Scholar