

## Short Biography

### PICH Reatrey

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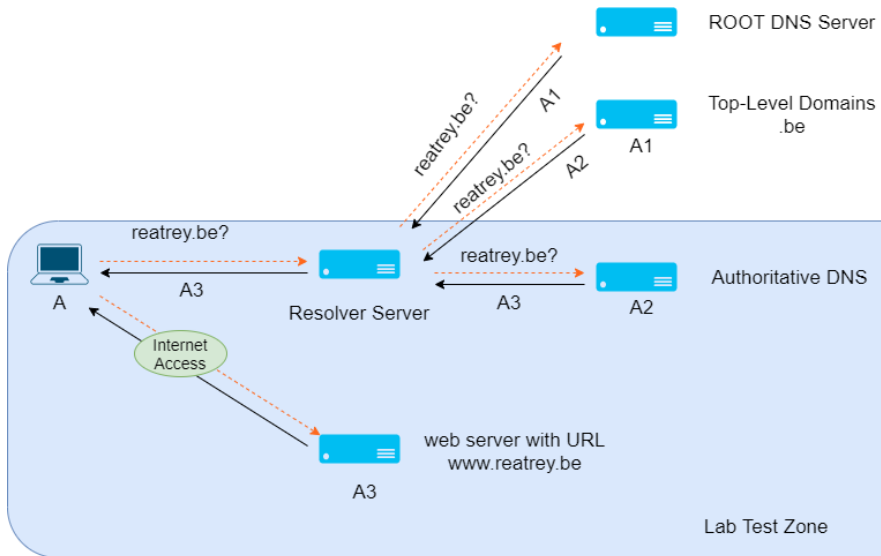
### Education:

- **Engineering Degree:** Institute of Technology of Cambodia (2011-2016) : Network Engineer (DICE)
- **Master Degree:** King Mongkut's Institute of Technology Ladkrabang, Thailand (2016-2018) : Cryptography (CIES)
- **PhD Candidate:** Institute of Technology of Cambodia + University of Namur (2021 – 2025): DNS System and Security

First Year Student for PhD Double Degree Program between university of Namur and Institute of Technology of Cambodia under ARES-CCD



## Research Background and Current Work



**Master Degree:** Chaotic Cryptography Using Chaos in Digital Filter  
-> Build cryptography engine using second order IIR and FIR Filter  
(Using MATLAB, Python to implement and deploy it in Raspberry PI)

Pich, Reatrey, et al. "A New Key Generator for Data Encryption Using Chaos in Digital Filter." 2017 IEEE 8th Control and System Graduate Research Colloquium (ICSGRC), IEEE, 2017, pp. 87–92, doi:10.1109/ICSGRC.2017.8070574.

Pich, Reatrey, et al. "A Single, Triple Chaotic Cryptography Using Chaos in Digital Filter and Its Own Comparison to DES and Triple DES." 2018 International Workshop on Advanced Image Technology (IWAIT), IEEE, 2018, pp. 1–4, doi:10.1109/IWAIT.2018.8369682.

**PhD Candidate:** DNS System and Security: Currently, Investigating in impact of TTL in Resource Record of Top level Domain Name.

**Current Testbed:** Build own DNS Authoritative Server, Resolver and user to capture the process of Legacy DNS flow and with the modification value of TTL to cache system to observe the impact (1<sup>st</sup> Semester)